



U.S. Environmental Protection Agency
Office of Environmental Programs Enforcement
Contract # 68-W9-0006

GRAND CALUMET

RECORDS COMPILATION AND POTENTIALLY
RESPONSIBLE PARTY SEARCH

RALSTON STREET LAGOON

FINAL REPORT

US EPA RECORDS CENTER REGION 5



436342

TES 9

Technical Enforcement Support
at Hazardous Waste Sites
Zone III
Regions 3, 6, and 7

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PRC Environmental Management, Inc.

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GRAND CALUMET
RECORDS COMPILATION AND POTENTIALLY
RESPONSIBLE PARTY SEARCH
RALSTON STREET LAGOON
FINAL REPORT

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Waste Programs Enforcement
Washington, DC 20460

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EPA Region	5
Site No.	C05114-07
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1.0 INTRODUCTION

1.1 Project Background

PRC Environmental Management, Inc. (PRC) received Work Assignment No. C05114 from the U.S. Environmental Protection Agency (EPA) under Contract No. 68-W9-0006 (TES 9) to conduct a Records Compilation and Responsible Party Search for the Grand Calumet River/Northwest Indiana Enforcement Initiative. PRC was requested to research and report on seven sites in the subject region. This effort was undertaken to identify potentially responsible parties (PRP), including owners, operators, transporters, and generators, who may be liable for clean-up expenses under Section 104(e) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act at these seven sites and may have contributed to sediment contamination in the Grand Calumet River and the Indiana Harbor Ship Canal. Resource Applications, Inc. (RAI), TES 9 team member, provided the necessary assistance to complete these activities for the second of the seven subject sites, the Ralston Street Lagoon (RSL) site in Gary, Indiana.

The Grand Calumet River drains a heavily industrialized watershed area of northwest Indiana at the southern tip of Lake Michigan. Poor water quality and aquatic habitat problems are reflected in both the high concentrations of contaminants in the river sediments and overlying water column, and the low level of biological activity.

EPA Region 5 has initiated an investigation into the source of the identified contaminants found within the sediment of the Grand Calumet River and Indiana Harbor Ship Canal waterways. On October 3, 1990, CERCLA 104(e) Information Request Letters were sent to the current and/or former owners of 13 sites located near the Grand Calumet River or Indiana Harbor Ship Canal in order to obtain information of site-specific waste management practices. Under a previous work assignment (Work Assignment No. 40 under Contract No. 68-W8-0109), RAI organized Section 104(e) Information Request response documents according to document control numbers (DCN) for 13 sites and indexed this and other information obtained from EPA Region 5 sources for six of these 13 sites. Under the current work assignment, PRC, with RAI working as a subcontractor, has been

asked to perform similar work for the remaining seven sites. The following report summarizes all compiled documents for the RSL site, one of the seven remaining sites.

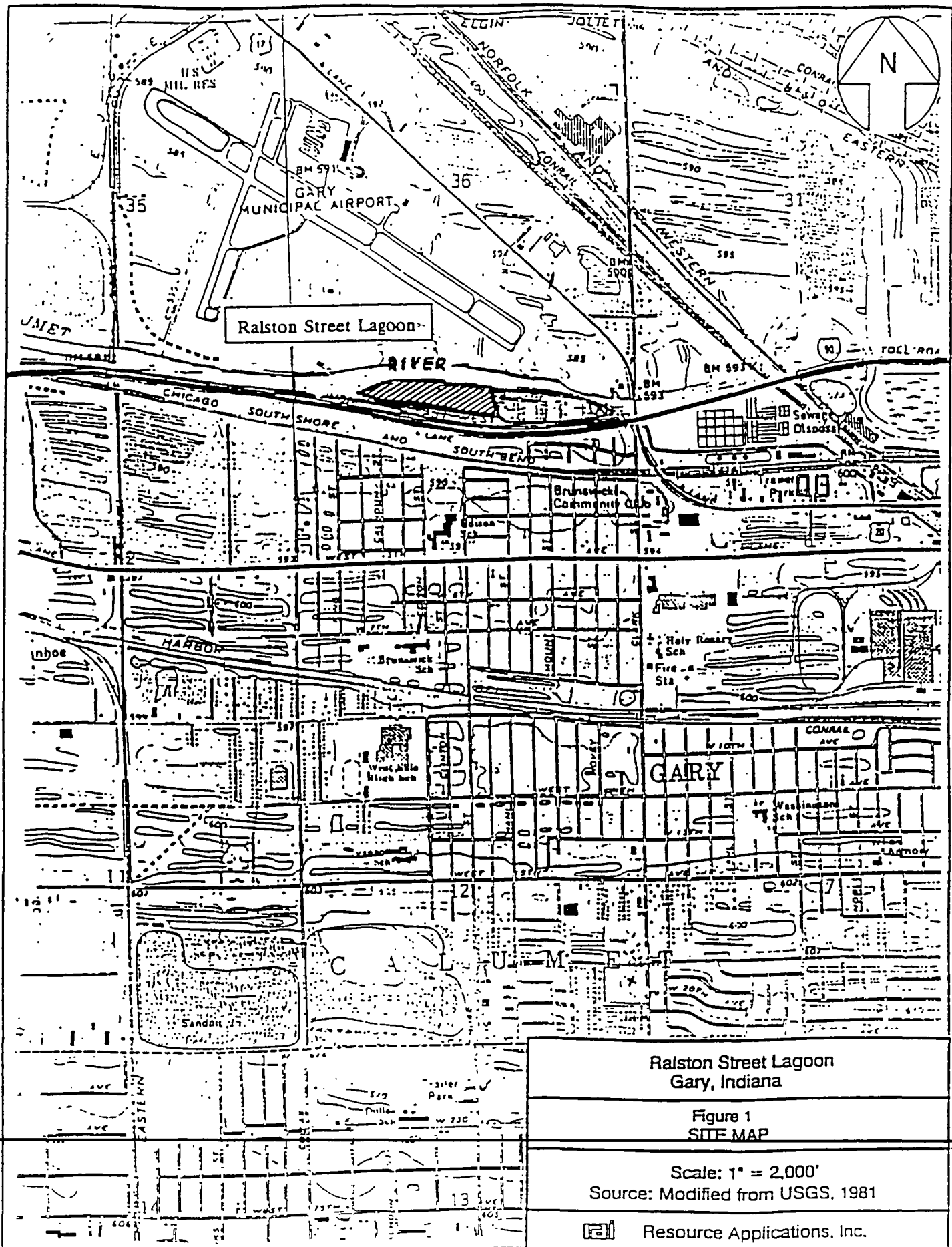
1.2 Site Background

The Ralston Street Lagoon (RSL) is an inactive site formerly used by the Gary Sanitary District (GSD) for sludge disposal and storage. The RSL still exists but sludge disposal operations ceased on April 1, 1988. Owned by the City of Gary, Indiana (a municipal corporation), the inactive RSL is part of a sewerage system currently operated by the GSD (a division of the City of Gary). Throughout the report, GSD and the City of Gary will be mentioned interchangeably as one entity. Also, "lagoon" will be used when referring to the RSL site.

For the purpose of this report, document control numbers (DCN) will be used to reference actual documents from which pertinent information was taken. The following report is based on information gathered from EPA Region 5 Responsible Party Search Section files (an October 5, 1990 CERCLA 104(e) Information Request response from the GSD), from Waste Management Division files (which included Resource, Conservation, and Recovery Act (RCRA) notification and compliance files and CERCLA pre-remedial files), and permit, compliance, and ground water files from the Water Division.

Located in Gary, Indiana, the inactive lagoon is adjacent to and south of the Grand Calumet River (DCN 262). The river surrounds the lagoon's north and west sides, while the Indiana Toll Road and Ralston Street form the lagoon's south and east boundaries, respectively (DCN 528), as shown in Figure 1. The lagoon stored sludges that were generated by treating wastewater at the GSD Wastewater Treatment Plant and then transported to RSL via an 8-inch force main during the period of 1964 to April 1988. It has been estimated that the volume of sludge and water in the lagoon may total 100 million gallons (DCN 1). It is not known whether sludge was transported by other means to the lagoon.

RAI found inconsistencies with regard to the actual size of the RSL site. In a July 28, 1989 report completed by three Purdue University Professors for GSD, the lagoon was estimated to be 18.5



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acres in size (DCN 528). However, in a preliminary assessment summary performed on June 25, 1985, and in a litigation report (date unknown), the RSL was approximated to be 25 acres in size (DCN 454). As part of a field investigation team report by Ecology & Environment, Inc. (E&E), the lagoon was reported to be 12 acres in size (DCN 262).

In addition to discrepancies in RSL's size estimations, there was varying information as to the owners of the lagoon and their corresponding dates of ownership. This is discussed in more detail in Section 5.4.1 (Former/Current Owners) of this report.

GSD contains a sewerage system which is comprised of a Wastewater Treatment Plant, its corresponding pipelines, various pump stations, and the RSL. On November 11, 1980, GSD submitted a Notification of Hazardous Waste Activity to EPA (DCN 260). EPA officially acknowledged this Notification on September 28, 1981 (DCN 235). GSD listed no hazardous waste codes on its notification. At some time GSD submitted its RCRA Part A permit application and was granted interim status (DCN 231). According to an October 28, 1981 letter from the Indiana State Board of Health to GSD, GSD's RCRA Part A permit application contained a process code, S04, designating a surface impoundment for storage (DCN 231). Based on an analysis which revealed that sludge being pumped to the surface impoundment was nonhazardous, GSD, as stated in a February 22, 1982 letter to EPA, agreed to have its RCRA Part A permit application withdrawn or have its interim status terminated (DCN 226). Though no RCRA Part A permit application was found within the compiled documents, there was a hand-written note which indicated that GSD's Part A permit application had been withdrawn. The note, stamped and dated January 29, 1985, gave the GSD status of "non-handler inactive" (DCN 225). Also, GSD's Notification of Hazardous Waste Activity dated November 11, 1980 was stamped by EPA on an unspecified date, "Part A Withdrawal Approved, TSD Deleted" (DCN 260).

According to several documents (DCN 1, 262, 302, 454, 528), the lagoon was originally excavated to provide fill for the State of Indiana's construction of the Indiana Toll Road. However, after the City of Gary's acquisition of the lagoon (dates vary: 1962, 1964), the lagoon was used for storage and disposal of wastewater sludge generated by the GSD Wastewater Treatment Plant (DCN 1, 262, 302, 454, 528). The Indiana State Board of Health approved of GSD using the RSL for the

purposes of storing and disposing of sludge when it granted a 1964 construction permit for the expansion of the GSD Wastewater Treatment Plant (DCN 1). From documents obtained for this project, it was reported that sludge disposal operations at the RSL ceased on April 1, 1988 (DCN 1, 454). Several inspections and studies were performed at the RSL during the period from 1983 to 1989. During a March 15, 1983 inspection of the RSL by the State of Indiana, several problems were observed: the lagoon was overflowing; overflow was leaking and discharging to the Grand Calumet River; and the north and east levees of the lagoon were leaching (DCN 262, 302). During a September 30, 1986 inspection by E&E, berms around the lagoon were observed to be leaking into an area connecting the RSL and Grand Calumet River (DCN 268). GSD never applied for a National Pollutant Discharge Elimination System (NPDES) permit for the RSL. However, GSD was issued an NPDES permit (Number 0022977) on October 7, 1987 for its Wastewater Treatment Plant, which discharges sludge to the RSL (DCN 930).

Various studies of the lagoon's contents by GSD, EPA, and the State of Indiana over the 6 year period from 1983 to 1989 led to similar conclusions: the RSL sludge was heavily contaminated with polychlorinated biphenyls (PCB) and heavy metals (barium, cadmium, copper, chromium, iron, lead, nickel, silver, and zinc) (DCN 262, 302, 528, 1228). In 1983, sludge analyses by Gulf Coast Laboratories for GSD indicated that the center and western regions of the lagoon were more heavily contaminated with PCBs than eastern, northern, and southern regions of the lagoon. Results of the 1983 analysis also concluded that the average PCB level in sludge samples throughout the lagoon was reported as 224 parts per million (ppm). Results of the 1983 analysis concluded that concentrations of total dissolved solids, copper, and lead all increased for samples taken at greater depths (DCN 528). The samples were taken at depths of 5, 10, 15, 20, and 25 feet. In 1986, analyses of sludge by Canonie, Inc. for GSD revealed an average PCB concentration of 238 ppm for the entire lagoon. Canonie, Inc. also observed PCB levels of 730 ppm for samples from the center of the lagoon, compared to values below 100 ppm for the eastern and western regions of the lagoon (DCN 528). No parameters were given to allow an analysis or comparison of results for analyzed metal constituents in Canonie, Inc.'s data of 1986. The source of the PCB contamination was not identified within the compiled documents. In June 1989, samples of filtered and unfiltered overlying lagoon waters were taken by Northern Laboratories, Inc. This sampling was limited to the overlying lagoon waters in order to evaluate both its character and the prospective utility of filtration as a means of

removing its "suspected" particle-bound PCB contamination. The unfiltered samples contained PCB levels of over 0.001 ppm. However, filtered samples revealed a complete absence of PCBs, thereby reinforcing GSD's prospect of using filtration as a means for "treating" the overlying waters prior to reentering the Wastewater Treatment Plant during RSL closure (DCN 528).

Ground water data collected by nine different labs during the period 1983 to 1989 indicated that levels of several parameters were higher in the northwest portion than in the southeast portion of the RSL (DCN 528). Among the parameters which followed this trend were ammonium-nitrogen, chloride, and total dissolved solids (DCN 528, 1228). The apparent direction of ground water flow in the area of the lagoon is from the southeast to the northwest (DCN 528). For samples upgradient (southeast) from the lagoon, barium concentrations were found to be in excess of drinking water standards (1 ppm). Barium concentrations downgradient (northwest) were found to be lower (DCN 528). Ground water data reflected consistently "low" concentrations of PCBs (less than 0.002 ppm) throughout the entire lagoon (DCN 528).

As part of E&E's September 30, 1986 inspection of the RSL, a checklist for immediate removal/remedial action was included. This checklist indicated that the RSL site was uncapped, that the decomposition of the sludge was generating methane and other anaerobic gases, that some leachate was leaking into an area connecting the RSL and Grand Calumet River, and that the lagoon's proximity to the adjacent residential population was less than 1,000 feet. The checklist rated the RSL site as a moderate to high priority for immediate removal/remedial action due to these observations (DCN 268, 283).

The discontinuation of RSL sludge operations began on December 1, 1987 when a sludge digestion process located off site began diverting sludge solids to various digesters rather than the lagoon (DCN 939). Havens and Emerson, Inc. (HEI), a consulting and engineering company contracted by the GSD, was in charge of the sludge digestion disposal project. HEI indicated that as the biological digestion process becomes established the complete abandonment of the RSL would occur soon after. Prior to the December 1, 1987 start-up date of the sludge digestion system, EPA had been concerned about deficiencies in the process and in particular, about holes near one of the digesters where sand was entering a broken pipe and settling within the pipe (DCN 944). On

November 13, 1987, HEI reported that the pipe was repaired and settling stopped. At maximum efficiency, the digestion process handled 100,000 gallons of sludge per day (DCN 944). The compiled documents did not indicate whether the system is currently operating.

Both the City of Gary and GSD have been involved in prolonged litigation with the United States Department of Justice (DOJ) and EPA due to both the RSL and GSD's other interrelated facilities violating provisions of the Clean Water Act (CWA), its NPDES permit, and the Toxic Substances Control Act (TSCA). The litigation began on January 23, 1978, when the DOJ filed a complaint against the GSD alleging numerous violations of the CWA at the GSD Wastewater Treatment Plant (DCN 454). This plant generated the sludge which was piped to the RSL. The 1978 complaint alleged that the City of Gary and GSD were discharging (unspecified) contaminants into the Grand Calumet River in excess of the effluent limitations found in its NPDES permit (number unknown) for its Wastewater Treatment Plant. On June 15, 1983, a Consent Judgement was filed as a response to the complaint. After numerous additional violations of the Consent Judgement and the CWA, a Motion to Enforce the Consent Judgement was filed in September 1984. The 1984 complaint, a Motion to Enforce the Consent Judgement, alleged that the original violations were continuing and that requirements to develop a pretreatment program were not being met. On July 15, 1986, a separate complaint alleging violations of the TSCA, 15 United States Code Subsection 2001, and sequence, was filed.

The CWA and TSCA complaints were then consolidated through a Stipulated Order filed June 16, 1987. As a consequence of this Stipulated Order, GSD had to discontinue use of the RSL for sludge disposal. GSD was ordered to implement a sludge handling system at its Wastewater Treatment Plant to handle new incoming sludge by December 1, 1987. The dewatered sludge was to be sent to a licensed landfill (DCN 454). GSD tendered a signed Modified Consent Decree to settle the CWA and TSCA actions on September 8, 1987 (DCN 454). This Modified Consent Decree required GSD to discontinue use of RSL by December 1, 1987.

This Modified Consent Decree was activated by a civil action suit (H 78-29) brought against the City of Gary and GSD by the United States of America and the Indiana Stream Pollution Control Board. This Modified Consent Decree read verbatim (DCN 1011):

"...supersedes the Consent Judgement previously filed, but incorporates by reference all of the defendants' prior obligations for compliance including but not limited to Sections II, III, IV, V, VI, VIIB, X, and XIV unless directed otherwise in this Modified Consent Decree....The objectives of this Consent Decree are compliance with the final effluent limits as specified in the June 15, 1983, Consent Decree, with the Clean Water Act and the NPDES permit including the elimination of discharges of pollutants from the Gary Sanitary District wastewater treatment system that violate the Clean Water Act, or the final effluent limits; the development and implementation of management practices that will result in effective management and operation of the complete wastewater treatment system; the establishment and implementation of measures to ensure the proper operations and maintenance of all equipment at the wastewater treatment system; the implementation on a continued basis of priority preventive and corrective actions to ensure that all equipment that is in need of repair receives that repair; the establishment and implementation of measures to ensure the proper staffing of the complete wastewater treatment system; the establishment and implementation of measures to ensure the proper training of all staff at the sanitary district; the cessation of all dry weather overflows and bypasses of the Wastewater Treatment Plant; final compliance with the Toxic Substances Control Act, 15 U.S.C. 2601 et seq. and the regulations promulgated thereunder at 40 C.F.R. Part 761, including but not limited to, the closing of the Ralston Street Lagoon in an environmentally sound manner including the disposal or stabilization of all sludge in the lagoon to prevent the migration of pollutants or contamination to surrounding waters; and the implementation and continued operation of a long term sludge handling and disposal program."

This Modified Consent Decree also states that the defendants must undertake certain remedial measures based on the schedule of compliance defined. These remedial measures for GSD, including the RSL, include the following.

- 1) The defendants must hire a new director for GSD and a new superintendent for the GSD Wastewater Treatment Plant.

- 2) The defendants must hire a new mechanical engineer for the GSD Wastewater Treatment Plant.
- 3) The defendants must hire an experienced instrument chemist with a college or university degree in analytical chemistry.
- 4) The defendants must establish and implement a management training program for all supervisory personnel to ensure directing the operation of the complete wastewater treatment system in a manner consistent with the requirements of the CWA, the final effluent limits, and the NPDES permit.
- 5) The defendants must perform the following tasks:
 - a) Establish a staffing program and an organizational structure at the GSD to ensure the effective operation of the complete wastewater system consistent with the requirements of the CWA, the final effluent limits, and the NPDES permit.
 - b) Continue to hire qualified persons whenever vacancies arise, with particular emphasis on those key management positions at the GSD in this Modified Consent Decree.
- 6) The defendants must undertake those actions that are necessary to operate and maintain the complete wastewater treatment system in compliance on a continual basis with the final effluent limitations.
- 7) Maintenance programs must be implemented which include the following:
 - a) The defendants must implement an interim maintenance program such that all equipment is lubricated, checked, painted, or repaired as needed to ensure long term operability of all equipment.
 - b) The defendants shall begin basic training sessions on maintenance procedures, and equipment operation practices for all plant operators and other appropriate plant operators and plant employees.
 - c) A comprehensive maintenance program for all plant equipment shall be submitted to EPA and the Indiana Stream Pollution Control Board for review and approval.
 - d) The maintenance program described in 7c above must be fully implemented by the defendants and continuously maintained thereafter.
- 8) Defendants must implement protective and corrective maintenance tasks for and on:
 - a) The rectangular primary clarifier
 - b) Scum incinerator equipment
 - c) Influent pumping equipment
 - d) Blower building sump pump
 - e) The screw pump operation
 - f) The West Building return sludge pumps
 - g) The East Building return sludge pump
 - h) The chlorine equipment and the chlorine contact chambers
 - ~~i) Install gas alarms outside the chlorine building and high water alarms in the basement of all buildings with power panels in the basement.~~
 - j) Systematic painting of all piping and equipment.

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- k) Install fencing around the RSL to prevent public access.
- 9) The defendants must maintain a sufficient variety of spare parts to enable the repair or replacement of equipment in a minimum amount of time and to ensure the operation of the complete wastewater treatment system. The defendants shall also develop a spare parts inventory containing:
 - a) A critical parts list
 - b) All routinely required spare parts ordered
 - c) Parts inventory and maintenance tracking implemented
 - d) A list of routine parts
- 10) The defendants must provide and thereafter maintain a maintenance facility and tool shed that is sufficient in size and design to ensure that all maintenance functions can be done safely and efficiently, and that it have a secure and orderly storage system which makes available basic machine tooling.
- 11) The defendants shall maintain an interim quality assurance (QA) and/or quality control (QC) program.
- 12) The defendants shall develop and implement a systematic QA and/or QC program for the plant laboratory.
- 13) The defendants shall implement sampling procedures that conform to all NPDES permit requirements and 40 C.F.R. Part 136.
- 14) The defendants shall repair and maintain the sewer regulator system so that dry weather overflows and bypasses are eliminated.
- 15) The defendants shall annually certify during the pendency of this Modified Consent Decree that the sewer system is in good repair, has adequate capacity, and will report a bypass if one occurs to EPA and the Indiana Stream Pollution Control Board in accordance with the requirements of the NPDES permit (DCN 1011).

On November 30, 1987, GSD filed a Petition for Modification of the Modified Consent Decree because it could not meet the December 1, 1987 deadline set forth for the discontinuation of the RSL. GSD reported that sludge discharging operations to the RSL stopped in April 1988. GSD submitted a schedule of when it would completely remedy the RSL situation and estimated compliance of its whole sludge handling system by July 18, 1988. On July 5, 1988, the DOJ filed a motion to collect penalties from GSD for its continual noncompliance with the Modified Consent Decree of September 8, 1987 (DCN 454). As of August 17, 1989, GSD still had not RCRA closed the RSL

site, nor had any penalties been collected from the City of Gary (DCN 451, 454). As stated previously, sludge discharging operations to the RSL stopped in April 1988.

GSD has been in continuous noncompliance with the terms of its NPDES permit and the Modified Consent Decree. From September 1987 through May 1989, the GSD Wastewater Treatment Plant was in violation of its NPDES permit due to its effluent value exceeding the limitations set for: carbonaceous biochemical oxygen demand; total suspended solids; ammonia-nitrogen; total phosphorous; oil and grease; phenols; and metals (cadmium, chromium, copper, iron, lead, mercury, and zinc). GSD also failed to report NPDES monitoring results during periods in 1987 and 1988. In fact, from 1987 to 1989, GSD was cited for 3,110 violations with an additional 564 failures to report (DCN 454). GSD failed to adequately staff key positions which were discussed in the Modified Consent Decree. The positions of director, plant superintendent, and pretreatment coordinator were either left unfilled or filled with unqualified personnel. Violations also occurred in GSD's operation and maintenance procedures. Floods occurred in January and June of 1988, causing major effluent limit violations. Numerous violations of effluent limits at the GSD Wastewater Treatment Plant occurred due to equipment being out-of-service. GSD did not maintain a sufficient inventory of spare parts and tools to provide for maintenance of the GSD Wastewater Treatment Plant as ordered by the Modified Consent Decree. At times, employees had to purchase their own tools in an attempt to properly operate the plant. GSD was also ordered to report monitoring results in a way which would allow for the detection of noncompliance. GSD regularly reported its results as "less than" a certain detection limit that was greater than the effluent limit itself (DCN 454). Consequently, there was uncertainty as to the meaning of GSD's submitted results. GSD was required to eliminate dry weather overflows and bypasses by repairing and maintaining its sewer system. In June 1988 and March 1989, illegal bypasses occurred due to malfunctions of raw sewage pumps at the GSD Wastewater Treatment Plant. GSD failed to annually certify that its sewer system was in good working order. No certifications, which were called for in the Modified Consent Decree, were received in 1988 or 1989 (DCN 454).

GSD developed a long-term closure plan and remediation project for the RSL site in 1989 (DCN 396, 528, 792). This closure plan was a requirement of the Modified Consent Decree of September 8, 1987. The closure plan proposed a series of interim measures leading to a set of final

RSL closure steps, whereby the lagoon's contents would be contained on site within a low permeability boundary which would prevent contact with ground water and surface water. The lagoon's contaminated contents would then be removed for off-site disposal (DCN 528). EPA submitted comments on the RSL closure plan and remediation project on August 8, 1990 as GSD was still in noncompliance with the Modified Consent Decree. EPA commented that for GSD to dispose of its sludge in a method other than that set in the Decree (on-site sludge system/off-site disposal), it would have to get approval from the EPA Regional Administrator and show reasons why a chemical waste landfill was not an appropriate method for disposal (DCN 396). Based on the documents compiled as of December 20, 1990, GSD has not responded to EPA's comments of August 8, 1990.

2.0 SCOPE OF WORK

As directed by the EPA Scope of Work, PRC and RAI accomplished the following objectives for the RSL site:

1. Met with the EPA Work Assignment Manager (WAM), Joseph Kawecki to discuss the specific work for the site.
2. Verified the integrity of the RSL site files previously compiled by RAI under a separate work assignment and contract (Work Assignment No. 40 of Contract No. 68-W8-0109). As part of this previous Work Assignment, records compilation activities were completed for 13 sites in the subject area.

File compilation activities involved acquiring and organizing the pertinent documents using a DCN system by Bates stamping each document in reverse chronological order by file source. RAI obtained copies of relevant documents from the Responsible Party Search Section (October 5, 1990 CERCLA 104(e) Information Request response from the City of Gary); the Waste Management Division (which included RCRA notification and compliance files and CERCLA pre-remedial files); and files from the Water Division (which included permit, compliance, and ground water files) of EPA Region 5.

3. Extracted and entered pertinent data into a database format.
4. Created six separate document indices (Appendices A-F). Appendices A (General Document Index for CERCLA 104(e) Information Request Response) and B (General Document Index for Other Compiled Documents) identify the original document source, a summary of the document, date, and items pertaining to: (1) PRPs, (2) any hazardous wastes and constituents found that were identified as critical contaminants (See Section 5.2) by the EPA WAM, (3) laboratory reports or test analyses, (4) a list of all large industrial and large commercial enterprises utilizing sewer taps contributing wastewater to

a Wastewater Treatment Plant with a sewage lagoon, if applicable, and (5) subjects of a general nature pertaining to this initiative and site (See Section 5.1).

Appendices C (Document Index for the CERCLA 104(e) Information Request Response Sorted by PRP and Indicating Critical Contaminants Referenced, If Listed) and D (Document Index for All Other Compiled Documents Sorted by PRP and Indicating Critical Contaminants Referenced, If Listed) list all documents pertaining to each identified PRP in separate database reports. These database reports list the original date, a summary of the document, and any hazardous wastes and constituents that were identified as critical contaminants (See Section 5.2) by the EPA WAM.

Appendices E (Employee Database for the CERCLA 104(e) Information Request Response) and F (Employee Database for Other Compiled Documents) list all employees in alphabetical order, first by employer and next by first name of each employee. The employee's position, the name of the division the employee is associated with, and its corresponding employer are also listed, if provided by the document (See Section 5.3).

5. Performed a PRP search and updated addresses for all PRPs identified. Identified registered agents for each PRP, when possible. Entered all name and address information into the PRPBASE Mailing Address Database (Appendix G).
6. Created a summary of the CERCLA 104(e) Information Request response for the RSL site. Discussed data relating to PRP waste disposal practices, accidental releases, or other information which would link a PRP to the Grand Calumet River sediment contamination and/or the RSL site contamination.
7. Created a report summarizing PRP information found in the document compilation and PRP search. Included information about disposal and operating practices, as available. Summarized the methodology used in gathering, organizing, and indexing the documents. Included all databases as appendices to the report.

3.0 PROJECT APPROACH

Under the direction of the EPA Work Assignment Manager (WAM), Joseph Kawecki, PRC and RAI completed a documents compilation and PRP search using information gathered from EPA sources. The document compilation and PRP search consisted of seven tasks, each of which is described below.

3.1 Project Development and Management

On March 19, 1992, RAI consulted the EPA WAM to obtain specific direction concerning this work assignment. Previously, under Work Assignment No. 40 under Contract No. 68-W8-0109, RAI completed records compilations for 13 sites in the vicinity of the Grand Calumet River and Indiana Harbor Ship Canal, and reports were generated for six of the 13 sites. Reports were submitted to EPA for the following sites:

- Amoco Corporation
- Energy Cooperative, Inc. Site
- General American Transportation Corporation
- Gary Development Corp.
- Mobil Corporation
- U.S. Gypsum

Mr. Kawecki identified the seven remaining sites which required work, and prioritized the sites in the following order:

- Hammond Sewage Lagoon
 - East Chicago Municipal Landfill
 - Northern Indiana Public Service Company Industries, Inc.
 - Georgia Pacific Corporation
-
- Ralston Street Lagoon (RSL)
 - LTV Steel Corporation

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- DuPont Corp.

On April 24, 1992, RAI notified the EPA WAM that a portion of the previously compiled documents for the Hammond Sewage Lagoon Site were not available from EPA's Waste Management Office's Record Center. The EPA WAM then stated that the East Chicago Municipal Landfill site should be the first priority, and that the RSL site should become second priority. Close contact was maintained biweekly with the EPA WAM during the course of the current work assignment to keep him apprised of technical and budget developments.

3.2 Verification of File Integrity

RAI verified the integrity of the files for the seven remaining sites including the RSL site under the current work assignment. These files were previously compiled by RAI under a separate work assignment and contract (Work Assignment No. 40 of Contract No. 68-W8-0109). These compiled files were retrieved from EPA Region 5's Waste Management Office's Record Center. The compiled files contain documents available as of May 1, 1991.

3.3 Extract and Enter Data

RAI reviewed all compiled documents for the RSL site. The documents were previously organized by EPA Region 5 file source under the previous work assignment discussed above, and each was given a unique document control number (DCN). Coded information includes the DCN and information pertaining to: (1) PRPs, including all large industrial and large commercial enterprises utilizing sewer taps contributing wastewater to the GSD Wastewater Treatment Plant which is connected to the RSL site, (2) any hazardous wastes and constituents found that were identified as critical contaminants by the EPA WAM, and the source of the information, (3) employees, their position, the corresponding divisions the employee is associated with and employer name (Appendices E and F), (4) laboratory reports and test analyses, and (5) subjects of a general nature pertaining to this initiative and to the subject site. The coded information was entered into databases to be used as document indices (Appendices A through D). See Section 5.0 for detailed information concerning all document indices. All coding sheets were checked 100 percent against the original documents and

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entered data was checked 100 percent against the coding sheets as part of RAI's Quality Assurance Program.

3.4 Perform PRP Search, Update Addresses, and Create Address Database

For the RSL site, RAI performed a PRP search on the compiled documents as the documents were coded as explained in Section 3.3. RAI also attempted to find, update, or confirm addresses for all PRPs identified, and entered the addresses onto coding sheets. RAI also contacted the Indiana Secretary of State's Corporation Division via telephone in an attempt to find the current registered agent and the agent's address for each PRP. This data was also recorded onto coding sheets. Data obtained from these coding sheets were entered into a PRPBASE mailing address database for the RSL site (Appendix G). RAI contacted five sources for information in cases where PRP addresses were unknown. These sources included:

- 1) Ameritech Pages Plus: Gary White/Yellow Pages, 1991-92
- 2) Ameritech Pages Plus: Chicagoland Business to Business Yellow Pages, 1991
- 3) Directory of Corporate Affiliations, Volumes I and II (1991)
- 4) Indiana Manufacturer's Directory, 1991
- 5) Million Dollar Directory of America's Leading Public & Private Companies (1991)

If no address was found for a PRP after five attempts, "No Data" was entered into the primary PRPBASE address field. For a detailed description of this database see Section 5.4. All coding sheets were checked 100 percent against the original documents and all entered data was checked 100 percent against the coding sheets as part of RAI's Quality Assurance Program.

3.5 Analyze 104(e) Information Request Response

At the EPA WAM's request, RAI reviewed the GSD's response to the CERCLA 104(e) Information Request Letter for data relating to PRP disposal practices, accidental releases, or other information which would link a PRP to the Grand Calumet River sediment contaminants or the RSL site contamination. This response information, as well as PRP name and address information, was

entered onto document coding sheets (the same as discussed in Sections 3.3 and 3.4) in accordance with the guidelines set forth in the PRPBASE Users' Manual. Data were entered from the forms into the database. The CERCLA 104(e) Information Request response from GSD is comprised of a narrative response and five supporting documents. To facilitate easy referral to all of the supporting documents, each has been coded separately within Appendix A. A detailed summary of the response is also found in Section 4.0. All coding sheets were checked 100 percent against the original documents and all entered data was checked 100 percent against the coding sheets as part of RAI's Quality Assurance Program.

3.6 Generate Reports

This final report was generated for the RSL site to summarize the methodology used in gathering, organizing, and indexing the documents. RAI has also prepared a detailed summary for the RSL site report to include available information from GSD's CERCLA 104(e) Information Request response (See Section 4.0) along with a general document index (Appendix A); a second document index (Appendix C) sorted by PRP and critical contaminants identified, if listed; and an employee index (Appendix E). Copies of the general document index (Appendix B) which includes all file sources other than the CERCLA 104(e) Information Request response, as well as a document index (Appendix D) organized by PRP and critical contaminants identified, if listed, and an employee index (Appendix F) are also attached to this final report. Appendix G presents the PRPBASE Mailing Address Database for PRPs identified in the RSL site documents. Copies of all supporting documentation by file source will be provided to EPA with this final report. The RSL report is marked "Enforcement Confidential." RAI submits this above-described final report which includes any assumptions made during the course of the project and descriptions of any deviations from the approved Work Plan, as requested by EPA. This final report for the RSL site incorporates EPA's comments on the draft report.

4.0 SUMMARY OF DATA CONTAINED IN A CERCLA SECTION 104(e) INFORMATION REQUEST RESPONSE

On October 5, 1990, GSD submitted its response to a CERCLA Section 104(e) Information Request Letter it received from EPA. The purpose of EPA's letter was to seek information regarding the inactive RSL site and its possible involvement with the Grand Calumet River sediment contamination. The following is a summary of GSD's response.

EPA requested a list of all EPA Identification Numbers applicable to GSD and its facilities. In response, GSD reported that no U.S. EPA Identification Number was assigned to the RSL. GSD reported however, that one of its other units (unspecified) has "Indiana I.D. No. 077 001 800" (DCN 1). Next, EPA made inquiries into GSD's possible involvement with hazardous materials in the area of the RSL. Also, EPA requested the following: the chemical composition of these materials; the supplier(s) of the materials; the quantities of materials used, purchased, generated, or otherwise handled; and in what processes and methods the materials were used. GSD responded that it was associated with hazardous materials, namely wastewater sludge, in the area of the RSL.

GSD provided sludge sample analyses and results to EPA which indicated that the various parameters tested for were: cadmium, copper, lead, zinc, nickel, phosphorous, potassium, PCBs, and nitrogen. However, no standards or limit requirements were provided for comparison purposes. With regards to suppliers, GSD suspected various, unidentifiable, local industries of generating hazardous materials. No official records which identified the sources of hazardous materials were provided. GSD explained that sludge was generated by treating wastewater at the GSD Wastewater Treatment Plant and then transported to the RSL via an 8-inch force main during the period of 1964 to April 1988. GSD estimated the amount of sludge and water present in the lagoon to be 100 million gallons.

EPA also requested information about when GSD owned and/or operated the RSL. GSD claimed to have owned the RSL since 1964. Operations of sludge transport and disposal lasted from 1964 until April 1988. When asked to list prior owners and operators of the land on which the RSL was situated, GSD named only the Indiana Toll Road Commission. GSD provided, as part of its

response, a warranty deed which showed that the State of Indiana Toll Road Commission owned the site beginning on September 11, 1956. The warranty deed for the subject property was granted by The Union Building & Construction Corporation. GSD stated that prior to obtaining the RSL in 1964, the site was used as a borrow pit. No information was provided to indicate if there were any other owners or operators between the period of 1956 and 1964.

Another request made by EPA was for GSD to provide any and all local, state, and federal environmental permits issued to it. GSD's only reply was that the Indiana State Board of Health approved GSD's use of the RSL for sludge storage by issuing a construction permit for the 1964 expansion of another GSD facility, the Wastewater Treatment Plant. The RSL is connected to the Wastewater Treatment Plant via a pipeline which was installed during the expansion of this Wastewater Treatment Plant. No EPA Identification Numbers or any other permit information was provided.

EPA then requested descriptions of manufacturing and production processes used at the RSL, as well as: the chemicals used in these processes; the chemicals produced by these processes; the equipment used in treating, transporting, or disposing of waste materials; the locations of on site disposal of chemical waste; and RSL's involvement with rinse waters. To the above-mentioned inquiries, GSD answered "N/A" indicating that EPA's requests were not applicable to the RSL.

Finally, EPA requested maps marked with on site locations of air monitoring devices. GSD stated that no such devices are situated on the RSL site. GSD provided a map showing the locations of six monitoring wells used for monitoring ground water for constituents which may be leaching from the lagoon. Results of ground water data (1983 to 1989) were provided but no standards or limit requirements were mentioned for comparison purposes. EPA requested all correspondence and internal reports relating to the RSL and any past contamination studies. In response to this request, GSD submitted a geotechnical information report (DCN 167). Included within this geotechnical information were profiles of the lagoon, as well as maps marked with boring locations.

5.0 DESCRIPTION OF DATABASES

5.1 General Document Indices

Files were obtained from EPA Region 5's Responsible Party Search Section, Waste Management Division, and the Water Division. Also acquired were two reports from the U.S. Geological Survey. They were: Geohydrology and Water Quality of the Shallow Ground - Water System in the Vicinity of the Grand Calumet River/Indiana Harbor Canal, Northwestern Indiana (Preliminary Copy), by Joseph M. Fendon and Lee R. Watson (Indianapolis, Indiana, 1991) and Preliminary Analysis of the Shallow Ground Water System in the Vicinity of the Grand Calumet River/Indiana Harbor Canal, Northwestern Indiana, by Lee R. Watson, Robert Shedlock, Konrad J. Beneszak, Leslie D. Anihad and Paul K. Doss (Indianapolis, Indiana, 1989). These two documents are referenced at the request of EPA.

An index of all documents in GSD's response to the CERCLA 104(e) Information Request is attached as Appendix A. An index of all other compiled documents is attached as Appendix B. All documents are arranged by DCN, which are Bates-stamped numbers applied by RAI, located at the top of each compiled page. Within each EPA file source (Responsible Party Search Section, Waste Management Division, and Water Division) documents were sorted in reverse chronological order, with any undated documents placed last or following other topic-related documents. The indices (Appendices A and B) contain information as follows:

- | | |
|-----------|---|
| 1) DCN | - Document Control Number |
| 2) Date | - Document and/or correspondence date, if listed
- If no date was listed, the phrase "undated" was entered |
| 3) Source | - Source of EPA Region 5 File <ul style="list-style-type: none"> 1) Responsible Party Search Section <ul style="list-style-type: none"> a) GSD's CERCLA 104(e) Information Request Response 2) Waste Management Division <ul style="list-style-type: none"> a) RCRA files <ul style="list-style-type: none"> - Notification files - Compliance files b) CERCLA pre-remedial files |
-

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- 3) Water Division
 - a) Permit files
 - b) Compliance files
 - c) Ground water files
- 4) Author
 - Author(s) of document or correspondence and their employer, if listed
 - If the author was not listed, the phrase "not listed" was entered
- 5) Recipient
 - Recipient(s) of document or correspondence and their employer, if listed
 - If the recipient of the document was not listed, the phrase "not listed" was entered
- 6) Summary
 - A detailed summary of the document including contaminants of concern, references to permitted and unpermitted releases of waste products, and other information
- 7) Critical Contaminants
 - Hazardous materials that were specified by EPA as critical contaminants (Section 5.2) that are mentioned, or stated as being "above detection limits" in the document
 - Critical contaminants referenced in sampling result reports that were listed as "not detected" or below "detection limits" were not included in this data field
 - When general terms such as "heavy metals" or "pesticides" were referred to within the summary without the names of the specific constituents, critical contaminants were not included in this data field
 - If none of the critical contaminants were identified in the document, the phrase "none listed" was entered
- 8) PRP Code
 - PRPs identified in the RSL site documents as PRPs to the RSL site and/or the Grand Calumet River sediment contamination listed by PRP code (Appendix A), a unique three-to-six character identifier

5.2 Document Indices Sorted by PRP and Indicating Critical Contaminants Referenced

As directed by EPA, RAI reviewed the compiled documents for any reference to PRPs and 23 critical contaminants listed below. No determination was made as to whether the critical contaminants referred to in the documents were wastes or products. The general document indices (Appendices A and B) were sorted by PRP to generate Appendices C and D. No new information has been added to these

two document indices; rather, it is a rearrangement of the general document indices in order to connect PRP-specific information with critical contaminants identified within the compiled documents. Appendix C contains references to PRPs found in all documents in GSD's response to the CERCLA 104(e) Information Request Letter and any critical contaminants listed. Appendix D contains references to PRPs identified in all other compiled documents and any critical contaminants listed. These two indices also include the DCN, date, and the summary of the documents in which the PRP reference was made. If date is not listed, the phrase "undated" has been inserted. If no critical contaminants were listed, the phrase "none listed" was entered.

The following is the list of critical contaminants identified by EPA:

PCBs	Lead
Dieldrin	Mercury
Hexachlorobenzene	Nickel
2,3,7,8-TCDD (dioxin)	Cadmium
Chlordane	Arsenic
Toxaphene	Copper
Heptachlor/Heptachlor epoxide	Chromium
DDT/DDE	Zinc
Hexachlorocyclohexane	Barium
2,3,7,8-TCDF (furan)	Manganese
Benzo(a)pyrene (PAHs)	Iron
Oil and other petroleum products	

5.3 Employee Databases

Appendix E is a listing of all employees identified in GSD's CERCLA 104(e) Information Request response. Appendix F is a listing of all employees identified in all other compiled documents. Appendices E and F list the employee's position; the corresponding division the employee is associated with, and the company name, if available; and the DCN of the document that references the employee. The two appendices are organized alphabetically by company. If a consulting or laboratory firm was

hired by a company or government office, the firm is considered to be an employee of the hiring company or government office. Hence, a company may be listed as an employee in the databases. Appendices A (General Document Index for the CERCLA 104(e) Information Request Response) and B (General Document Index for Other Compiled Documents) contain additional information regarding the documents referenced in Appendices E and F.

5.4 PRPBASE Mailing Address Database

Upon completion of the PRP search portion of this work assignment (as discussed in Section 3.4), an inventory of all PRPs identified in the RSL documents was taken. Address information concerning each PRP found was entered onto a data coding sheet. Coded information was then entered into the PRPBASE Mailing Address Database. The database contains:

- 1) PRP Code - A unique three-to-six character identifier
- 2) PRP Name - Name of PRP found in documents
- 3) Law Firm - Name of the PRP's law firm, if known
- 4) Address 1 -
 - a) Address of site
 - b) If a current mailing address could not be identified after five attempts (See Section 3.4), "No data" was entered
 - c) Also used to note previous or new names
 - a/k/a Represents another associated name
 - f/k/a Represents a former name
 - n/k/a Represents a new name
- 5) Address 2 - Continuation of Address 1
- 6) City - City name
- 7) State - State abbreviation
- 8) Zip Code - Zip code
- 9) Phone Number - Area code and telephone number
- 10) Contact - Registered agent/individual responsible for responding to EPA

- 11) Address Type - Types of address
- Type 1 = Primary address - current mailing address
 - Type 2 = Secondary address - facility or parent company mailing address

As instructed by EPA, only those companies and/or persons identified in the documents as an owner, operator, generator, transporter, or as having knowledge about GSD's waste management practices at RSL are PRPs for the purpose of this report. EPA's time frame of concern for the document compilation completed for this site under a separate work assignment and contract (Work Assignment No. 40 under Contract No. 68-W8-0109) was from 1960 to the present. However, as directed by EPA under this previous work assignment and carried over to the current work assignment, any entities or persons identified by the definition of a PRP as defined above, regardless of the time frame, should be included as a PRP. The identified PRPs can be divided into five distinct groups: 1) former/current owners; 2) former/current operators; 3) generators; 4) waste transporters/disposal firms; and, 5) miscellaneous PRPs.

The following sub-sections detail the above-mentioned groups of PRPs. Appendix G contains information regarding current addresses and registered agents for these PRPs.

5.4.1 Former/Current Owners

As stated earlier in this report (Section 1.2), the City of Gary is a municipal corporation and GSD is a division of this corporation that operates the City of Gary's sewer system (DCN 454). The sewer system contains the inactive RSL site. From information obtained for this project, both the City of Gary and GSD were mentioned as current owners of the subject lagoon. RAI noticed varying information with regards to ownership and dates of ownership. One document indicated the City of Gary acquired the lagoon in 1962 (DCN 528). However, GSD was reported to have owned the lagoon since 1964 (DCN 1). Prior owners of the subject lagoon include the State of Indiana Toll Road Commission and Union Building & Construction Corporation. In a September 11, 1956 warranty deed granted to the State of Indiana Toll Road Commission by Union Building & Construction Corporation, ownership of the land on which the inactive RSL is located was transferred between the two parties (DCN 36). No

other information included in the compiled documents indicates the length of time each of these owners held the land, nor was there any information which identified other possible owners.

5.4.2 Former/Current Operators

According to the compiled documents, GSD served as the operator of the RSL for over two decades. Operations of sludge storage and disposal began in 1964 and ceased in April 1988 (DCN 1, 262). No other operators of the area were identified within the documents. However, prior to GSD's usage of the RSL, the Indiana Toll Road Commission used the area as a borrow pit for fill during a construction project (DCN 1). There was no evidence suggesting that the Indiana Toll Road Commission used the area for hazardous waste activity, nor was there any information indicating the length of time the area was used as a borrow pit.

5.4.3 Generators

Entities which generated wastes that were disposed of at the RSL were considered to be generators with regards to the RSL site. One of two generators identified was GSD. The GSD Wastewater Treatment Plant generates wastewater treatment sludge during the process of treating wastewater from residential, commercial, and industrial sources (DCN 1). The other generator identified was the United States Steel Corporation (DCN 528). This company was categorized as a major industrial user of the GSD Wastewater Treatment Plant. According to several documents, United States Steel Corporation discharged wastes to the Wastewater Treatment Plant on occasions during the operational period of the RSL (DCN 528, 982). United States Steel Corporation's significant waste and effluent discharges were treated at the GSD Wastewater Treatment Plant, and as a result contributed (generated) wastes to the GSD sewer system. Consequently, sludge produced in the processing of wastewater was affected by United States Steel Corporation's discharges. As stated earlier, wastewater treatment sludge was generated at the Wastewater Treatment Plant before being transported to the RSL (via the force main).

5.4.4 Waste Transporters/Disposal Firms

As directed by EPA, transporters are defined as entities which transported wastes to or from the RSL. Entities which accepted wastes from the RSL were classified as disposal firms. Within the compiled documents, no transporters of waste to or from the RSL were identified. From 1964 to April 1988, wastewater treatment sludge was transported from GSD's Wastewater Treatment Plant to the RSL via an 8-inch force main (DCN 1). Land and Lakes Company of Park Ridge, Illinois, was discovered to be a disposal firm since it had a February 2, 1988 agreement with the GSD to accept RSL sludge for landfill disposal (DCN 937). Land and Lakes Company operates a landfill used for waste disposal. No additional information was found which indicated the duration or length of GSD's February 2, 1988 agreement with Land and Lakes Company.

5.4.5 Miscellaneous PRPs

As directed by EPA, entities whose names appear in the compiled documents but who do not fall into the PRP categories of former/current owners, former/current operators, generators, or waste transporters/disposal firms were categorized as miscellaneous PRPs. The Ninth Avenue Dump, MIDCO I (abandoned dump), Conservation Chemical Company, Hoosier State Trust Property, and Gary Regional Airport were all mentioned within the compiled documents and therefore, may have had some relationship with the RSL or knowledge of GSD's waste management practices at the RSL. However, exact relationships between these entities and the RSL or GSD were not specifically stated (DCN 862, 928, 933, 935, 936). In addition, five corporations were identified from an EPA report generated from the Water Division's Permit Compliance System Database which listed major effluent dischargers to the Grand Calumet River, Indiana Harbor Ship Canal, and Lake Michigan (DCN 335). Consequently, the following corporations may have contributed to the sediment contamination of the Grand Calumet River and Indiana Harbor Ship Canal: AMOCO Oil Company (AMOCO); Energy Cooperative, Inc. (ECI); E.I. Dupont De Nemours & Company (Dupont); LTV Steel Co., Inc. (LTV); and the City of Hammond, Indiana. No relationships between these corporations and the RSL or GSD were defined within the compiled documents. Appendix G contains additional information regarding PRP mailing addresses.

Contracted companies and entities of the GSD are not considered miscellaneous PRPs but rather are listed in Appendices E and F, the employee databases.

6.0 RECOMMENDATIONS

Various items pertaining to GSD and the RSL are ambiguous and need clarification and/or verification. The file review indicated that the RSL site was not assigned an EPA Identification (ID) Number. An additional inquiry by RAI revealed that no ID number is listed for the RSL site within the EPA Region 5 RCRA files. In response to EPA's request to list all ID numbers applicable to GSD and its facilities, GSD answered by listing "Indiana I.D. No. 077001800" as an applicable number. It was unclear to which facility of GSD this number was designated. In an inspection report of the RSL dated September 30, 1986, the EPA ID number "IND 077 001 808" was used to designate the GSD. As already mentioned and according to file review, the RSL is not managed by GSD under an EPA ID number. It is suggested that GSD's EPA ID Number, "IND 077 001 808," be verified. RAI also recommends investigating the number "Indiana I.D. No. 077001800" to determine exactly what facility the number represents, if any.

RAI recommends that a follow up CERCLA 104(e) Information Request letter be sent to GSD to acquire additional information concerning the exact year that the RSL property was purchased (1962 or 1964) and the location of GSD's Wastewater Treatment Plant in relation to the RSL. The follow up letter should also request information about GSD's relationship with the United States Steel Corporation, Land and Lakes Company, Ninth Avenue Dump, MIDCO I, Conservation Chemical Company, Hoosier State Trust Property, and the Gary Regional Airport. However, unless a relationship is identified by GSD in its response, RAI does not suggest sending CERCLA 104(e) Information Request letters to Ninth Avenue Dump, MIDCO I, Conservation Chemical Company, Hoosier State Trust Property, and the Gary Regional Airport. These miscellaneous PRPs were identified on several documents which do not refer to the City of Gary, GSD, or RSL but were in the compiled files. Consequently, it is possible that these tentatively identified PRPs have no knowledge of or connection to the RSL site.

RAI recommends sending CERCLA 104(e) Information Request letters to the United States Steel Corporation and Land and Lakes Company in order to determine what, if any, knowledge or involvement these companies may have pertaining to the RSL site and the Grand Calumet River sediment contamination.

RAI recommends that CERCLA 104(e) Information Request letters be sent, if not done so already, to the following corporations: AMOCO Oil Company (AMOCO); Energy Cooperative, Inc. (ECI); E.I. DuPont De Nemours & Company (Dupont); LTV Steel Company (LTV); and the City of Hammond, Indiana. Information on each corporation's waste management practices and relationship with the Grand Calumet River or Indiana Harbor Ship Canal should be gathered as each of these entities were identified as PRPs to the Grand Calumet River or Indiana Harbor Ship Canal via an EPA Water Division Permit Compliance System Database effluent discharge monitoring report for the area near the City of Gary.

RAI recommends asking GSD to supply a list of industrial users whom it suspects to have contributed wastewater to the GSD sewage system (during the RSL's operational years). If and when such a list is obtained, CERCLA 104(e) Information Request letters should be sent to each of the users identified by GSD for the purposes of determining their waste management practices and their exact relationship with GSD and the RSL.

RAI suggests questioning the Indiana Toll Road Commission via a CERCLA 104 (e) Information Request letter to obtain information on how long it owned the site and also about the ways in which the site was used during the time of the Commission's ownership of the site.

As another recommendation, conflicting information on the RSL's size and gaps in its ownership record should be resolved and clarified.

Finally, RAI recommends that EPA obtain any pertinent, outstanding documents regarding the RSL and GSD. In particular, documents related to the withdrawal of GSD's RCRA Part A Hazardous Waste permit application are not included in the records compilation and should be obtained to complete the EPA file.

7.0 REFERENCES

Ameritech Pages Plus: Gary White/Yellow Pages, 1991-92. Ameritech Publishing Company.

Ameritech Pages Plus: Chicagoland Business to Business Yellow Pages, 1991. Donnelley Directory.

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United States Geological Survey (USGS). Highland, Lake County, Indiana: Highland Quadrangle, 7.5-Minute Series (Topographic), 1981.

Watson, Lee R. Robert Shedlock, Konrad J. Beneszak, Leslie D. Anihad and Paul K. Doss. Preliminary Analysis of the Shallow Ground Water System in the Vicinity of the Grand Calumet River/Indiana Harbor Canal, Northwestern Indiana. Indianapolis, Indiana: U.S. Geological Survey, 1989.

APPENDIX A

GENERAL DOCUMENT INDEX FOR THE CERCLA 104(e)
INFORMATION REQUEST RESPONSE

CRITICAL CONTAMINANTS ABBREVIATION TABLE	
As	Arsenic
Ba	Barium
Chlord	Chlordane
Cd	Cadmium
Cr	Chromium
Cu	Copper
DDT/DDE	Dichlorodiphenyltrichloroethane
Diel	Dieldrin
Fe	Iron
Furn	2, 3, 7, 8-TCDF (furan)
Hept	Heptachlor/Heptachlor epoxide
Hexb	Hexachlorobenzene
Hexh	Hexachlorocyclohexane
Hg	Mercury
Mn	Manganese
Ni	Nickel
OIL	Oil & other petroleum products
PAH	Benzo(a)pyrene
Pb	Lead
PCB	Polychlorinated biphenyls
TCDD	2, 3, 7, 8-TCDD (dioxin)
Toxap	Toxaphene
Zn	Zinc

POTENTIALLY RESPONSIBLE PARTY (PRP) CODE ABBREVIATION TABLE	
AIRPRT	GARY REGIONAL AIRPORT
AMOCO	AMOCO OIL COMPANY - WHITING REFINERY
CCC	CONSERVATION CHEMICAL CO.
DUPONT	E.I. DUPONT DE NEMOURS & COMPANY
ECI	ENERGY COOPERATIVE, INC.
GARY	CITY OF GARY, INDIANA AND ALL ITS DIVISIONS, INCLUDING THE GARY SANITARY DISTRICT
HAMON D	CITY OF HAMMOND, INDIANA
HOOSER	HOOSIER STATE TRUST PROPERTY
INSTAT	STATE OF INDIANA TOLL ROAD COMMISSION
LDLKCO	LAND AND LAKES COMPANY
LTV	LTV STEEL CO., INC.
MIDCOI	MIDCO I
NINTH	NINTH AVENUE DUMP
STEEL	UNITED STATES STEEL N/K/A USX CORP.
UNBLDG	UNION BUILDING & CONSTRUCTION CORP.

APPENDIX A
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RAISTON STREET LAGOON (RSL)
DOCUMENT INDEX FOR CERCLA 104(e) INFORMATION
REQUEST RESPONSE

11/92

DOCUMENT CONTROL NUMBER	DATE	SOURCE	AUTHOR	RECIPIENT	SUMMARY	CRITICAL CONTAMINANTS	PNP CODES
1	10/05/90	RESPONSIBLE PARTY SECTION	EUGENE L. KEZY (GSD)	JO LYNN TRAUB (EPA)	LETTER OF RESPONSE FROM GSD REGARDING EPA'S REQUEST FOR INFORMATION PURSUANT TO CERCLA 104(e) GSD ACQUIRED RSL IN 1964 - SLUDGE WAS TRANSPORTED TO LAGOON FROM 1964 TO APRIL 1, 1988. RSL WAS FORMERLY A BORROW PIT. INDIANA STATE BOARD OF HEALTH (ISBH) APPROVED USE OF RSL FOR SLUDGE STORAGE BY GSD. SLUDGE WAS GENERATED AT GARY WASTEWATER TREATMENT PLANT. GSD ESTIMATED THAT THE RSL CONTAINED 100 MILLION GALLONS OF SLUDGE AND WATER INDIANA STATE TOLL ROAD WAS LISTED AS RSL'S PRIOR OWNER.	NONE LISTED	GARY, INSTA
26	05/24/83	RESPONSIBLE PARTY SECTION	DONALD GIPPLE (GULF COAST LABS)	MR. MUZUMDAR (GSD)	LAB RESULTS AND CHEMICAL ANALYSES FOR RSL SLUDGE SAMPLES. SAMPLES WERE TAKEN AND ANALYZED FOR DIFFERENT DEPTHS AND THE CORRESPONDING PARAMETERS WERE MEASURED: Cd, Cu, Pb, Zn, Ni, PCBs, PHOSPHOROUS, POTASSIUM, NITROGEN, AND TOTAL SOLIDS.	PCB, Pb, Ni, Cd, Cu, Zn	GARY
36	09/11/56	RESPONSIBLE PARTY SECTION	NOT LISTED	NOT LISTED	COPY OF WARRANT DEED AND PROOF OF PRIOR OWNERSHIP (1956) TRANSFERRED FROM UNION BUILDING AND CONSTRUCTION CORPORATION TO THE STATE OF INDIANA TOLL ROAD COMMISSION	NONE LISTED	GARY, INSTA, UNBLDG
361	UNDATED	RESPONSIBLE PARTY SECTION	NOT LISTED	NOT LISTED	MAP WHICH SHOWED LOCATIONS OF MONITORING WELLS AT RAISTON STREET LAGOON	NONE LISTED	GARY
362	VARIOUS	RESPONSIBLE PARTY SECTION	VARIOUS	GARY SANITARY DISTRICT	GROUND WATER SAMPLING DATA FROM RSL DURING THE PERIOD OF 9/1/83 TO 6/22/89. PARAMETERS INCLUDED As, Ba, Cd, CHLORIDE, Mn, Cu, Fe, Zn, Ni, Cr, Pb, Hg, PCBs, NITROGEN (AMMONIA, NITRATES), POTASSIUM, SELLINIUM, SILVER, pH, TOTAL DISSOLVED SOLIDS, PHENOLS, PHOSPHATES, TOTAL ORGANIC CARBONS, TOTAL ORGANIC HALOGENS. SAMPLES WERE TAKEN FROM SIX DIFFERENT WELLS (LOCATIONS) AND MONITORED FOR THE ABOVE PARAMETERS BY GULF COAST LABORATORIES. NO	PCB, Hg, Hg, Ni, Cd, As, Cu, Cr, Zn, Ba, Mn, Fe	GARY

ALL INFORMATION ABOVE (EXCLUDING SUMMARIES) WAS TAKEN VERBATIM FROM THE COMPILED DOCUMENTS

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APPENDIX A
 GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
 RECORDS SEARCH
 RALSTON STREET LAGOON (RSL)
 DOCUMENT INDEX FOR CERCLA 104(e) INFORMATION
 REQUEST RESPONSE

Page No 2
 9/11/92

DOCUMENT CONTROL NUMBER	DATE	SOURCE	AUTHOR	RECIPIENT	SUMMARY	CRITICAL CONTAMINANTS	PRP CODES
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					PERMISSIBLE LEVELS OF INFORMATION WERE PROVIDED FOR COMPARISON AND ANALYSIS OF THE SAMPLING RESULTS		
167	UNDATED	RESPONSIBLE PARTY SECTION	NOT LISTED	NOT LISTED	PART OF CSD'S RESPONSE TO CERCLA 104(e) REQUEST FOR INFORMATION. INCLUDED IN THIS APPENDIX WERE SITE SOIL PROFILE DIAGRAMS, BORING LOCATIONS, BORING DATA, SOIL SAMPLING DATA, AND A SKETCH SHOWING THE LOCATION OF THE BERM GAP TO BE FILLED WITH SLAG, SAND, AND POSSIBLY WITH JUNK AUTO BOOTIES. THE SOIL PROFILES WERE COMPILED FROM DATA TAKEN AT 11 BORING LOCATIONS ALONG THE NORTH AND SOUTH SIDE OF RALSTON STREET LAGOON. RESULTS SHOW A UNIFORM WATER TABLE AT AN AVERAGE ELEVATION OF 503 FEET, LOCATED 3 TO 6 FEET BELOW THE SURFACE. THE SOIL STRATUM IS COMPRISED OF A BOTTOM LAYER OF GREY CLAY EXTENDING FROM AN APPROXIMATE DEPTH OF 34 FEET DOWNWARDS, A MIDDLE LAYER OF MEDIUM TO DENSE GREY FINE SAND BEGINNING AT A DEPTH OF APPROXIMATELY 7 FEET SLOPING DOWNWARD APPROXIMATELY 8 FEET FROM THE SOUTH SIDE TO THE NORTH SIDE, AND A TOP LAYER OF BROWN FINE SAND OF VARYING DENSITY. ON THE NORTH SIDE OF THE LAGOON, THE MIDDLE SAND LAYER SHOWS INCONSISTENT LAYERS OF SAND WITH TRACE ORGANICS OF SOFT PEAT.	NONE LISTED	GANT

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APPENDIX B

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DOCUMENT NUMBER	DATE	SOURCE	AUTHOR	RECIPIENT	SUMMARY	CRITICAL CONTAMINANTS	PRP CODES
00	11/18/81	RCRA COMPLIANCE	ARAVIND MUZUMDAR (GSD)	ARNOLD LEDER (EPA)	LETTER FROM GARY SANITARY DISTRICT (GSD) TO U S ENVIRONMENTAL PROTECTION AGENCY (EPA) WITH ENCLOSED RESPONSE TO A PRIOR INQUIRY BY INDIANA STATE BOARD OF HEALTH (ISBH) THE RESPONSE FROM GSD TO ISBH EXPLAINED THAT GSD HAD NOT IMPLEMENTED REQUIREMENTS OF A PROGRAM FOR INTERIM STATUS REQUIREMENTS DUE TO AN UNDERSTANDING THAT IT WAS NOT REQUIRED TO GSD SLUDGE WAS FOUND TO BE NONHAZARDOUS GSD PREFERRED TO MAINTAIN AN INTERIM STATUS WITHOUT HAVING TO IMPLEMENT STANDARD REQUIREMENTS OF 40 CFR 265 BECAUSE THEIR SLUDGE WAS NONHAZARDOUS COPY OF AN EPA PROGRAM OPERATIONS MEMORANDUM 80-4 IS ATTACHED, WHICH EXPLAINS HOW TO DETERMINE WHETHER SLUDGES ARE HAZARDOUS.	NONE LISTED	GARY
23	UNDATED	RCRA COMPLIANCE	NOT LISTED	NOT LISTED	INSPECTION REVIEW FORM FOR GSD STATE (INDIANA) SENT WARNING LETTER ON 10/28/81 TO GSD FOR ITS RSL BEING OUT OF COMPLIANCE.	NONE LISTED	GARY
25	01/29/85	RCRA NOTIFICATION	LISA PIERARD (EPA)	NOT LISTED	NOTIFICATION THAT GSD HAD ITS PART A HAZARDOUS WASTE APPLICATION (FOR HAZARDOUS SLUDGE) WITHDRAWN. GSD WAS GIVEN A STATUS OF INACTIVE NON-HANDLER, CODE 1.	NONE LISTED	GARY
26	02/22/82	RCRA NOTIFICATION	RICHARD SHANDROSS (EPA)	ARAVIND MUZUMDAR (GSD)	LETTER FROM GSD TO EPA WHICH STATED GSD WAS WILLING TO WITHDRAW PART A APPLICATION OR HAVE EPA TERMINATE GSD'S DESIGNATION OF INTERIM STATUS.	NONE LISTED	GARY
27	11/18/81	RCRA NOTIFICATION	ARAVIND MUZUMDAR (GSD)	RICHARD SHANDROSS (EPA)	LETTER FROM GSD TO EPA WITH ENCLOSED RESPONSE TO INDIANA STATE BOARD OF HEALTH'S (ISBH) PRIOR INQUIRY REGARDING WITHDRAWAL OF RCRA PART A APPLICATION RESPONSE INDICATED THAT GSD HAD NOT IMPLEMENTED REQUIREMENTS OF PROGRAM DUE TO UNDERSTANDING IT WAS NOT REQUIRED TO GSD'S SLUDGE	NONE LISTED	GARY

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				WAS FOUND TO BE NONHAZARDOUS GSD PREFERRED TO MAINTAIN AN INTERIM STATUS WITHOUT HAVING TO IMPLEMENT STANDARD REQUIREMENTS OF 40 CFR 265 BECAUSE SLUDGE WAS NONHAZARDOUS		
10/28/81	KCRA NOTIFICATION	GUINN DOYLE (ISBH)	ARAVIND MUZUMDAR (GSD)	LETTER FROM ISBH TO GSD WHICH DETAILED CONCERNS PERTAINING TO FACILITY OPERATION AT GSD. OBSERVATIONS REVEALED: LACK OF WASTE ANALYSIS PLAN, LACK OF: "DANGER - UNAUTHORIZED PERSONNEL KEEP OUT" SIGN, INSPECTION SCHEDULES, INFORMATION CONCERNING PERSONNEL TRAINING, REQUIRED EQUIPMENT, EMERGENCY ARRANGEMENTS, CONTINGENCY PLAN, EMERGENCY COORDINATION, OPERATING RECORDS, AND CLOSURE PLANS. REVIEW OF FILES ON GSD INDICATED PAST LEVELS OF PD AND CR IN SLUDGE WERE ABOVE PERMISSIBLE LEVELS BUT CURRENTLY WERE BELOW KCRA STANDARDS.	PD, CR	GART
09/28/81	KCRA NOTIFICATION	NOT LISTED	NOT LISTED	ACKNOWLEDGEMENT BY EPA THAT GSD FILED A 9/28/81 NOTIFICATION OF HAZARDOUS WASTE ACTIVITY	NONE LISTED	GART
09/24/81	KCRA NOTIFICATION	NOT LISTED	NOT LISTED	9/24/81 RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) INSPECTION REPORT ON GSD INSPECTION REVEALED NO WASTE ANALYSIS PLAN WAS DEVELOPED, NO "DANGER" SIGNS PRESENT, NO RECORDS OF MALFUNCTIONS, DISCHARGES, ETC EXISTED GSD WAS LACKING WITH REGARDS TO: INSPECTION SCHEDULE, SAFETY/EMERGENCY EQUIPMENT, SECURITY DEVICES, INSPECTION LOGS, PERSONNEL TRAINING RECORDS AND OTHER AREAS	NONE LISTED	GART
11/18/80	KCRA NOTIFICATION	ARAVIND MUZUMDAR (GSD)	NOT LISTED	GSD SIGNED NOTIFICATION OF HAZARDOUS WASTE ACTIVITY AND PROVIDED EPA WITH ADMINISTRATIVE INFORMATION	NONE LISTED	GART

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262	09/30/86	CERCLA PRE	REMEDIAL	PAT PETRELLA (ECOLOGY AND ENVIRONMENT, INC.)	NOT LISTED	INSPECTION REPORT FOR RSL INSPECTION WAS PERFORMED ON 9/30/86 AND MEMO INDICATED THAT RSL HAD BEEN USED AS PERMANENT SLUDGE DISPOSAL AREA FOR GSD WASTEWATER OPERATIONS SINCE 1962. THE REPORT ESTIMATED THE RSL TO BE 12 ACRES IN SIZE. DURING A 3/15/83 STATE INSPECTION, LAGOON WAS OBSERVED TO BE OVERFLOWING AND LEVEES LEAKED TO GRAND CALUMET RIVER. SLUDGE SAMPLES COLLECTED DURING A 1983 ASSESSMENT OF RSL CONTAINED PCBs AND HEAVY METALS (Pb, Hg, Cd, Cu, Zn) ABOVE EPA'S PERMISSIBLE LEVELS	PCB, Pb, Hg, Cd, Cu, Zn	GARY
268	03/09/85	CERCLA PRE	REMEDIAL	PAT PETRELLA (ECOLOGY AND ENVIRONMENT, INC.)	NOT LISTED	SITE INSPECTION REPORT OF RSL PERFORMED BY ECOLOGY AND ENVIRONMENT, INC. (E&E). PCBs, Pb, Hg, Zn, Cu, AND Cd LEVELS WERE HIGH. LAGOON WAS FOUND TO BE UNLINED, SO POTENTIAL FOR GROUND WATER CONTAMINATION EXISTED. BERMS AROUND LAGOON WERE OBSERVED TO BE LEAKING INTO A MARSHY AREA CONNECTED TO GRAND CALUMET RIVER. EPA AND INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) WERE INVOLVED IN LEGAL ACTIONS VS GSD	PCB, Pb, Hg, Cd, Zn, Cu	GARY
283	09/30/86	CERCLA PRE	REMEDIAL	PAT PETRELLA (ECOLOGY AND ENVIRONMENT, INC.)	NOT LISTED	CHECKLIST FOR IMMEDIATE REMOVAL ACTION, ALONG WITH PHOTOS AND DIAGRAMS/MAPS REGARDING RSL. PHOTOS OF LAGOON SHOWED AREAS OF EXPOSED SLUDGE WHERE WATER LEVEL WAS LOW. NO IMMEDIATE REMOVAL ACTION DECISION WAS MADE ON THIS DOCUMENT.	NONE LISTED	GARY
290	08/16/83	CERCLA-PRE	REMEDIAL	PETER KOSTNER (SALISBURY ENGINEERING, INC.)	DONALD GIPPLE (GULF COAST LABS, INC.)	LETTER, MAPS, AND DIAGRAMS REGARDING THE DEVELOPMENT AND INSTALLATION OF WELLS REQUESTED BY GULF COAST LABS, INC. FOR GROUND WATER SAMPLING	NONE LISTED	GARY

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2	09/30/86	CERCLA PRE REMEDIAL	NOT LISTED	NOT LISTED	REPORT ON RSL REVEALED SEVERAL PROBLEMS WITH LAGOON. THE LAGOON WAS CLOSE TO OVERFLOWING; LACK OF PROPER SEAL ALLOWED DISCHARGES TO LITTLE CALUMET RIVER, AND TWO LEVEES WERE LEACHING FIGURES, GRAPHS, TABLES, AND DATA INDICATED LAGOON WAS HAVING NEGATIVE EFFECTS ON GROUND WATER QUALITY. OTHER EVIDENCE THAT LAGOON WAS ADVERSELY AFFECTING GROUND WATER WAS ANALYSIS OF TOTAL ORGANIC CARBONS, TOTAL DISSOLVED SOLIDS, PCB, CHLORIDE, PHOSPHATES, AND HEAVY METALS (As, Cd, Cu, Ag, Cr, Pb, Hg). WELLS WERE OBSERVED AND SLUDGE CONTAINED PCB ABOVE EPA'S PERMISSIBLE LEVELS	PCB, Pb, Hg, Cd, As, Cu, Li	GART
10	06/25/85	CERCLA PRE REMEDIAL	INDIANA STATE BOARD OF HEALTH	U.S. ENVIRONMENTAL PROTECTION AGENCY	PRELIMINARY ASSESSMENT SUMMARY OF RSL INDICATING GROUND WATER CONTAMINATION DUE TO THE LAGOON. MONITORING WELLS THAT WERE INSTALLED IN 7/83 SHOWED UNSPECIFIED "ELEVATED" LEVELS OF AMMONIA, TDS, TOC, AND PCBs. LEACHING WAS OBSERVED ON 3/15/83. ANALYSIS ALSO INDICATED LEVELS OF Cr, Cu, AND Pb BUT NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS. THIS 25 ACRE LAGOON HAS BEEN IN USE SINCE 1964 AND AS OF 6/25/85 WAS FULL.	PCB, Cd, Cu, Pb	GART
35	04/16/91	WATER DIVISION	NOT LISTED	NOT LISTED	EFFLUENT DISCHARGE REPORTS FOR SELECTED FACILITIES IN GART AREA INDUSTRIES MONITORED INCLUDED: ENERGY COOPERATIVE, INC. (ECI), LTV STEEL CO., INC. (LTV), GSD; AMOCO OIL CO. (AMOCO); HAMMOND MUNICIPAL SEWAGE TREATMENT PLANT; GART WASTEWATER TREATMENT PLANT; AND E. I. DUPONT DE NEMOURS & CO (DUPONT). RESULTS OF EFFLUENT TESTED FOR OIL AND GREASE, TOTAL SOLIDS, GROSS FLOW, NITROGEN, AMMONIA, CHLORIDE, SULFATE, FLUORIDE, Fe, PHENOLICS, TiN, Pb, CYANIDE, Cd, GROSS OXYGEN DEMAND, POTASSIUM, As, Cr, Cu, Hg, BIOCHEMICAL OXYGEN DEMAND AND SELENIUM. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.	Pb, Hg, Ni, Cd, As, Cr, Zn, Fe, OIL	GART, ECI, LTV, DUPONT, AMOCO, HAMMOND

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43	12/20/90	WATER DIVISION	EUGENE L KEZY (GSD)	HOWARD DUCKMAN (EPA)	LETTERS AND TEST RESULTS SUBMITTED TO EPA BY GSD. THE SAMPLES WERE TAKEN FROM MONITORING WELLS AND SURFACE WATER IN TOLL ROAD DITCH AND THEN ANALYZED. THE ANALYSIS REVEALED THAT THE WATER IN BOTH CONTAINED PHENOL, BUTYLBENZYLPHthalATE, DIBUTYLPHthalATE, DIEHTYLPHthalATE, ACETONE, AMMONIA, CU, ZN, AS, HG, SELENIUM, THALLIUM, ANTIMONY, BERYLLIUM, Cd, Cr, Pb, Ni, Ag, DIOXIN NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.	PCB, Pb, Hg, Ni, Cu, As, Cr, Zn	GARY
189	11/19/90	WATER DIVISION	EUGENE L KEZY (GSD)	HOWARD DUCKMAN (EPA)	LETTER AND SAMPLE ANALYSES SUBMITTED TO EPA FROM GSD. SAMPLES WERE TESTED FOR PCB's AMMONIA-NITROGEN, CHLORINE, LAGOON WELLS AND TRENCH WERE THE LOCATIONS SAMPLED ON 10/10/90 PCB LEVELS WERE BELOW DETECTION LIMITS.	NONE LISTED	GARY
192	09/05/90	WATER DIVISION	EUGENE L KEZY (GSD)	HOWARD DUCKMAN (EPA)	LETTER AND SAMPLE ANALYSES SUBMITTED TO EPA BY GSD. SAMPLES WERE TAKEN ON 7/5/90 FROM SIX LAGOON WELLS AND TRENCH, AND MONITORED FOR PCBs, AMMONIA-NITROGEN, AND CHLORINE PCBs WERE FOUND TO BE BELOW DETECTION LIMITS.	NONE LISTED	GARY
396	08/08/90	WATER DIVISION	STEPHEN M JOWSON (EPA)	LINCOLN DONALDSON (GSD)	LETTER FROM EPA TO GSD REGARDING RSL REMEDIATION PROJECT. GSD CHOSE TO PURSUE AN ALTERNATE DISPOSAL METHOD FOR PCB-CONTAMINATED LAGOON SLUDGE BUT DID NOT SUBMIT PROPER/SUFFICIENT INFORMATION TO EXCLUDE INCINERATION/LANDFILLING AS APPROPRIATE METHODS. AN APPENDIX WAS ATTACHED OUTLINING THE INFORMATION NECESSARY FOR EPA TO DECIDE WHICH METHODS OF DISPOSAL GSD MAY PURSUE.	PCB	GARY

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DOCUMENT CONTROL NUMBER	DATE	SOURCE	AUTHOR	RECIPIENT	SUMMARY	CRITICAL CONTAMINANTS	PRP CLAIMS
04	07/02/90	WATER DIVISION	EUGENE L KEZT (GSD)	HOWARD DUCKMAN (EPA)	LETTER FROM GSD TO EPA WHICH SUMMARIZED THE CHRONOLOGY OF EVENTS AND STATUS OF THE RSL CLOSURE PROJECT. GSD WAS WAITING FOR EPA COMMENTS BEFORE PROCEEDING WITH THE PROJECT. ATTACHED WAS A CURRENT LIST OF SANITARY DISTRICT BOARD MEMBERS AND MEETING SCHEDULE.	NONE LISTED	GART
12	05/21/90	WATER DIVISION	EUGENE L KEZT (GSD)	ANNE WEINERT (EPA)	LETTER AND SAMPLE RESULTS FOR AMMONIA, CHLORIDE AND PCB FROM GSD TO EPA. RESULTS WERE FROM 4/10/90, TAKEN FROM MONITORING WELLS AND SURFACE WATER OF TOLL ROAD DITCH. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.	PCB	GART
15	04/11/90	WATER DIVISION	LINCOLN DONALDSON (GSD)	ANNE WEINERT (EPA)	LETTER FROM GSD TO EPA THAT INDICATED NO RESPONSE HAD BEEN RECEIVED REGARDING RSL PROJECT. GSD REQUESTED TO KNOW WHEN RESPONSE COULD BE EXPECTED	NONE LISTED	GART
16	03/19/90	WATER DIVISION	SHELDON SIMON (EPA)	TODD CATER (EPA)	SUMMARY OF EPA'S COMMENTS AND SUGGESTIONS REGARDING RSL CLOSURE PROJECT. PROPOSED PLANS WERE ACCEPTABLE BUT NEEDED EPA/TOXIC SUBSTANCES CONTROL ACT (TSCA) APPROVAL. INFORMATION INDICATED SOLIDIFICATION OF LAGOON WAS NOT NEEDED. LIQUID PORTION IN LAGOON NEEDED TO BE COMPLETELY REMOVED BEFORE BACKFILLING.	NONE LISTED	GART
18	03/05/90	WATER DIVISION	LINCOLN DONALDSON (GSD)	ANNE WEINERT (EPA)	LETTER AND SAMPLE RESULTS SUBMITTED TO EPA BY GSD FOR SAMPLES TAKEN ON 1/31/90. GSD STILL HAD NOT RECEIVED EPA'S COMMENTS ON RSL CLOSURE PLAN. SAMPLES TAKEN FROM THE MONITORING WELLS WERE ANALYZED FOR PCBs, AMMONIA NITROGEN, AND CHLORIDES. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.	PCB	GART

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25	02/27/90	WATER DIVISION	JACKIE L. SANOPSHIRE (GSD)	ARTHUR E. SMITH, JR. (EPA)	LETTER FROM GSD'S ATTORNEY REQUESTING MORE TIME TO PREPARE RESPONSE FOR EPA. THE RESPONSE WAS TO BE AN EXPLANATION OF WHY GSD WOULD NOT RESTRICT ADDITIONAL FLOWS IN GSD'S SYSTEM AND THAT THERE WOULD NOT BE ANY INCREASE IN WASTE STREAM FLOWS BY GSD OR ITS OUTSIDE USERS. GSD REQUESTED THIS EXTRA TIME DUE TO ONGOING COURT CASES VS. UNITED STATES OF AMERICA	NONE LISTED	GARY
27	01/09/90	WATER DIVISION	JERRI-ANNE GARL (EPA)	ANNE WEINERT (EPA)	LETTER WHICH SUMMARIZES EPA GROUND WATER SECTION'S COMMENTS ON THE RSL REMEDIATION PROJECT. GROUND WATER SECTION SUGGESTED MEASURING FOR VOLATILE ORGANICS, HEAVY METALS, AND PAH'S IN ADDITION TO PCB AND AMMONIA NITROGEN. THE LETTER ALSO SUGGESTED ALTERING THE SLUDGE DEWATERING SYSTEM TO REDUCE LEACHATE MIGRATION FROM LAGOON.	PCB	GARY
29	01/10/90	WATER DIVISION	ROBERT D. TOLPA (EPA)	EPA MEMBERS	LETTER WITHIN EPA REQUESTING MEMBERS TO RESPOND WITH COMMENTS ON REMEDIAL ALTERNATIVES FOR RSL. RSL WAS CONTAMINATED WITH PCBs AND EPA WANTED ITS STAFF'S VIEWS ON A PROPOSED REMEDIATION PRESENTED BY GSD.	PCB	GARY
30	01/05/90	WATER DIVISION	LINCOLN DONALDSON (GSD)	MARTHA ANNE WEINERT (EPA)	GSD'S RESPONSE TO EPA'S REQUEST FOR DEVELOPMENT OF SAMPLING PROGRAM. GSD AGREED TO: (1) MONITOR WELLS FOR GROUND WATER CONTAMINATION; (2) TEST SURFACE WATER OF TOLL ROAD DITCH; (3) TEST SOIL OF LAGOON BEAM AT DIFFERENT LOCATIONS; AND (4) TEST GRAND CALUMET RIVER SEDIMENTS. PARAMETERS MEASURED ARE TO INCLUDE PCB, AMMONIA, CHLORINE, AND CONDUCTIVITY. GSD REQUESTED COPY OF DESIGN STUDY OF WAUKEGAN HARBOR WHICH HAD SIMILAR PROBLEMS TO RSL AND FOR WHICH AN AGREEABLE SOLUTION WAS ACHIEVED. GSD INSTALLED "NO TRESPASSING" SIGNS ON	PCB	GARY

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					THE LAGOON FENCE MAP WHICH SHOWED SAMPLING AREAS AND SOME SAMPLING PROCEDURES WERE ATTACHED.		
42	01/08/90	WATER DIVISION	LINCOLN DONALDSON (GSD)	ANNE WEINERT (EPA)	LETTER AND SAMPLE RESULTS SUBMITTED TO EPA BY GSD ALSO INCLUDED WAS A MAP OF SAMPLING AREAS AND AN OUTLINE OF METHODS USED FOR SAMPLE ANALYSIS. PARAMETERS MEASURED INCLUDED: Cd, Cr, Cu, Fe, Hg, Ni, Ag, Zn, AMMONIA-NITROGEN, AND PCBs. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS	Cd, Cr, Cu, Fe, Hg, Ni, Zn, PCB	GARY
49	09/20/89	WATER DIVISION	LEON T. SMITH (GSD)	MARTHA ANNE WEINERT (EPA)	LETTER FROM GSD TO EPA IN RESPONSE TO EPA'S SUSPICIONS THAT SLUDGE/WATER WAS FLOWING INTO A DITCH THAT LED TO GRAND CALUMET RIVER (GCR). INVESTIGATION REVEALED NO EVIDENCE THAT THE FLOW CAME FROM RSL. GSD OBSERVED INDIANA HIGHWAY DEPARTMENT'S DREDGING EQUIPMENT NEAR INDIANA TOLL ROAD (DITCH). GSD SUGGESTED THAT WATER IN THE DITCH WAS GROUND WATER ON RUNOFF DUE TO ABUNDANT RAINFALL. ATTACHED WAS A MEMO FROM GSD INVESTIGATOR WHO STATED LAGOON WAS NOT OVERFLOWING INTO GCR DURING A 9/15/89 INSPECTION.	NONE LISTED	GARY
1451	08/17/89	WATER DIVISION	VALDAS V. ADAMKUS (EPA)	RICHARD B. STEWART (USDOL)	LETTER FROM EPA TO U.S. DEPARTMENT OF JUSTICE, ALONG WITH LITIGATION REPORT REGARDING EPA'S SUGGESTED CONTEMPT MOTION VS. GSD AND THE CITY OF GARY (GARY). GSD CONTINUED TO VIOLATE PROVISIONS OF 9/8/87 MODIFIED CONSENT DECREE (MCD). THE VIOLATIONS WERE: INADEQUATE SAMPLING AND REPORTING, FAILURE TO OPERATE/MAINTAIN EQUIPMENT, AND FAILURE TO MEET NPDES PERMIT LIMITS AND BYPASSES. GSD PROBLEMS RESULTED FROM MANAGEMENT FAILURES. ON 7/8/88, GSD WAS REQUIRED TO PAY PENALTIES FOR PAST AND CONTINUING VIOLATIONS. IN JUNE OF 1989, EPA EXECUTED TWO CRIMINAL SEARCH WARRANTS TO INVESTIGATE FALSE REPORTING OF CLEAN WATER ACT DISCHARGE REPORTS BY GSD INDIVIDUALS.	NONE LISTED	GARY

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165-	UNDATED	WATER DIVISION	U S ENVIRONMENTAL PROTECTION AGENCY	NOT LISTED	LITIGATION REPORT ON GSD AND CITY OF GARY. EPA WANTED IMMEDIATE CONTEMPT ACTION VS. THE CITY OF GARY AND ITS DIVISION, GSD, DUE TO MANY VIOLATIONS BEING LONGSTANDING AND CONTINUOUS (INCLUDING FAILURE TO REMEDIATE THE RSL). THE REPORT ESTIMATED THE LAGOON'S SIZE TO BE 25 ACRES. GSD'S SEWAGE SYSTEM HAS BEEN IN CONTINUOUS NON-COMPLIANCE SINCE 9/8/87, WITH REGARDS TO ITS NPDES PERMIT AND TWO CONSENT DECREE'S. GSD'S SEWAGE SYSTEM CONSISTS OF VARIOUS PARTS, INCLUDING ITS WASTEWATER TREATMENT PLANT, RSL, AND ITS VARIOUS PIPELINES. GSD AND THE CITY OF GARY HAVE BEEN INVOLVED IN EXTENDED LITIGATION WITH THE U S DEPARTMENT OF JUSTICE AND EPA FOR VIOLATING PROVISIONS OF THE CLEAN WATER ACT, ITS NPDES PERMIT, AND THE TOXIC SUBSTANCES CONTROL ACT (TSCA). LITIGATION STARTED ON 1/23/78. THE 1978 COMPLAINT STATED THAT GARY AND GSD WERE DISCHARGING UNSPECIFIED POLLUTANTS INTO THE GRAND CALUMET RIVER. THE DISCHARGE'S EFFLUENT LIMITS WERE ABOVE ITS NPDES REQUIREMENTS. ON 6/15/83, A CONSENT JUDGEMENT WAS FILED. LATER, A MOTION TO ENFORCE THE CONSENT JUDGEMENT OCCURRED (IN SEPTEMBER 1984). THE MOTION TO ENFORCE CONSENT JUDGEMENT ALLEGED THAT VIOLATIONS CONTINUED. ON 7/15/86, A COMPLAINT OF TSCA VIOLATIONS WAS FILED VS. GARY AND GSD FOR THE RSL REMEDIATION PROJECT DEFICIENCIES IN A STIPULATED ORDER OF 6/16/87, GSD WAS TO CEASE USING RSL AS A SLUDGE DISPOSAL AREA. GSD WAS ORDERED TO DEVELOP AN ON-SITE SLUDGE HANDLING SYSTEM 12/1/87 AND SEND ITS DEWATERED SLUDGE TO A LICENSED LANDFILL. A MODIFIED CONSENT DECREE WAS ENTERED ON SEPTEMBER 8, 1987 TO ADDRESS THE CLEAN WATER ACT AND TSCA ISSUES CONCERNING THE RSL. ON 11/30/87, GSD REQUESTED MORE TIME TO CEASE SLUDGE OPERATIONS AT THE RSL BECAUSE IT COULD NOT MEET THE DECEMBER 1, 1987 DEADLINE DUE TO A GEOTECHNICAL PROBLEM AT THE SITE OF ITS SLUDGE DIGESTOR HANDLING SYSTEM (NOT LOCATED ON RSL PROPERTY). GSD ESTIMATED IT WOULD BE IN COMPLIANCE	PCB, Pb, Hg, Cd, Cu, Li, Fe, Zn	GARY

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					<p>WITH THEIR ON SITE SLUDGE HANDLING SYSTEM BY 7/18/88. ON 7/5/88, THE U. S. DEPARTMENT OF JUSTICE FILED A MOTION TO COLLECT PENALTIES FOR GSD'S CONTINUAL NON-COMPLIANCE WITH THE 9/8/87 MODIFIED CONSENT DECREE. AS OF 8/17/89, GSD STILL HAD NOT ACHIEVED INTERIM AND FINAL STABILIZATION OF THE RSL, NOR HAD ANY PENALTIES BEEN COLLECTED FROM GART. INCLUDED IN THE REPORT WERE OTHER VIOLATIONS RELATED TO THE GSD: FAILURE TO MAINTAIN THE PLANT IN ORDER TO MEET EFFLUENT LIMITATIONS AND COMPLIANCE; FALSIFICATION OF PREVIOUS COMPLIANCE REPORTS. 3,110 VIOLATIONS OCCURRED AT GSD (NOT SPECIFICALLY RSL) DURING THE PERIOD FROM 9/87 TO 5/89. ON 1/19/88, A FLOOD CREATED ABOUT 400 VIOLATIONS OF GSD'S EFFLUENT LIMITS. GSD WAS ALSO GUILTY OF BEING UNDERSTAFFED, POORLY MAINTAINING EQUIPMENT, INCORRECTLY REPORTING RECORDS, AND FAILING TO REMEDIATE THE RSL SITE. RSL SLUDGE OPERATIONS FINALLY ENDED ON APRIL 1, 1988 AFTER THE 11/30/87 REQUEST FOR EXTENSION.</p> <p>THE GSD HAS BEEN IN CONTINUOUS NONCOMPLIANCE WITH THE TERMS OF ITS NPDES PERMIT AND THE MODIFIED CONSENT DECREE. FROM SEPTEMBER 1987 THROUGH MAY 1989, GSD WAS IN VIOLATION OF ITS NPDES PERMIT DUE TO ITS EFFLUENT VALUES EXCEEDING THE LIMITATIONS SET FOR: CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND; TOTAL SUSPENDED SOLIDS; AMMONIA-NITROGEN; TOTAL PHOSPHOROUS; OIL AND GREASE; PHENOLS; AND METALS (CADMIUM, CHROMIUM, COPPER, IRON, LEAD, MERCURY, AND ZINC). GSD ALSO FAILED TO REPORT MONITORING RESULTS DURING PERIODS IN 1987 AND 1988. IN FACT, FROM 1987 TO 1989, GSD WAS CITED FOR 3,110 VIOLATIONS WITH AN ADDITIONAL 564 FAILURES TO REPORT. GSD FAILED TO ADEQUATELY STAFF KEY POSITIONS WHICH WERE DISCUSSED IN THE MODIFIED CONSENT DECREE. THE POSITIONS OF DIRECTOR, PLANT SUPERINTENDENT, AND PRETREATMENT COORDINATOR WERE EITHER LEFT UNFILLED OR FILLED WITH UNQUALIFIED PERSONNEL. VIOLATIONS ALSO OCCURRED IN GSD'S OPERATION AND MAINTENANCE PROCEDURES. FLOODS OCCURRED IN JANUARY AND JUNE 1988, CAUSING MAJOR EFFLUENT LIMIT VIOLATIONS. THE MODIFIED CONSENT</p>		

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DEGREE ALSO ORDERED GSD TO MAINTAIN A SUFFICIENT AMOUNT OF SPARE PARTS FOR REPAIRING EQUIPMENT AS NEEDED. NUMEROUS VIOLATIONS OF EFFLUENT LIMITS AT GSD OCCURRED DUE TO EQUIPMENT BEING OUT OF SERVICE, YET ANOTHER VIOLATION. IN ADDITION, GSD DID NOT MAINTAIN A SUFFICIENT INVENTORY OF SPARE PARTS AND TOOLS TO PROVIDE FOR MAINTENANCE OF THE WASTEWATER PLANT, AS ORDERED BY THE MODIFIED CONSENT DECREE. AT TIMES, EMPLOYEES EVEN HAD TO PURCHASE THEIR OWN TOOLS IN AN ATTEMPT TO PROPERLY OPERATE THE PLANT. GSD WAS ALSO ORDERED TO REPORT MONITORING RESULTS IN A WAY WHICH WOULD ALLOW FOR DETECTION OF NONCOMPLIANCE. GSD REGULARLY REPORTED ITS RESULTS AS "LESS THAN" A CERTAIN DETECTION LIMIT THAT WAS GREATER THAN THE EFFLUENT LIMIT ITSELF. GSD WAS REQUIRED TO ELIMINATE DRY WEATHER OVERFLOWS AND BYPASSES BY REPAIRING AND MAINTAINING ITS SEWER SYSTEM. IN JUNE 1988 AND MARCH 1989, ILLEGAL BYPASSES OCCURRED DUE TO MALFUNCTIONS OF RAW SEWAGE PUMPS AT THE GSD PLANT. GSD FAILED TO ANNUALLY CERTIFY THAT ITS SEWER SYSTEM WAS IN GOOD WORKING ORDER. NO CERTIFICATIONS, WHICH WERE CALLED FOR IN THE MODIFIED CONSENT DECREE, WERE RECEIVED IN 1988 OR 1989. ALSO, GSD HAD FAILED TO IMPLEMENT ANY AND ALL ASPECTS OF A PROPOSED PRETREATMENT PROGRAM IN A TIMELY MANNER. IN FACT, THE PRETREATMENT PROGRAM AT GSD STARTED IN JULY 1988, 31 MONTHS LATE BY GSD'S OWN ADMISSION. FINALLY, THE MODIFIED CONSENT DECREE REQUIRED GSD TO SUBMIT MONTHLY PROGRESS REPORTS PERTAINING TO ALL PROGRAMS AND PROJECTS SPECIFIED IN THE DECREE. FROM THE PERIOD OF OCTOBER 1987 AND JULY 1989, ONE REPORT WAS RECEIVED ON TIME, 14 REPORTS WERE SUBMITTED LATE, AND 7 REPORTS WERE NEVER SUBMITTED. ON TOP OF THAT, GSD HAD CONTINUOUS DEFICIENCIES IN LABORATORY QUALITY. CONSEQUENTLY, REPORTS WHICH WERE SUBMITTED WERE EITHER INSUFFICIENT, INADEQUATE, OR INCOMPLETE.

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28	07/28/89	WATER DIVISION	JAMES E ALLEMAN, ERNEST R BLATCHLEY, JEAN-LOU CHAMLEAU (GSD)	NOT LISTED	FINAL REPORT WITH APPENDICES ON RSL REMEDIATION PROJECT COMPLETED FOR GSD BY THREE PURDUE UNIVERSITY PROFESSORS. THE CITY OF GARY ACQUIRED THE RSL IN 1962. PCBs WERE DISCOVERED IN THE LAGOON SEDIMENTS IN 1980, WARRANTING REMEDIATION OF THE LAGOON. THE PLAN OF ACTION WAS TO PERFORM FINAL CLOSURE SO THAT THE LAGOON CONTENTS WOULD BE CONTAINED ON SITE, WITHIN A LOW PERMEABILITY BOUNDARY, TO PREVENT CONTACT WITH GROUND WATER AND SURFACE WATER, AND LEAKAGE OF CONTAMINATED CONTENTS. SLUDGE SAMPLES WERE TESTED AND DID NOT DISPLAY ICHMITABILITY, CORROSIVITY, REACTIVITY OR EP TOXICITY; THEREFORE, RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REGULATIONS DID NOT APPLY TO RSL SLUDGE DISPOSAL. INFLUENT AND EFFLUENT PIPES WERE INSTALLED FOR SLUDGE STORAGE PURPOSES. DUE TO PCB CONTAMINATION, THE PIPES REQUIRED SEALING TO ISOLATE THE LAGOON FROM THE GRAND CALUMET RIVER (GCR) AND GARY WASTEWATER TREATMENT PLANT (GWTP). THE LAGOON HAD A SURFACE AREA OF 18.5 ACRES. ABOUT 600,000 CUBIC YARDS OF SLUDGE HAD BEEN PUMPED TO THE LAGOON. THE AVERAGE PCB CONTENT WAS 220-240 mg/l. SAMPLING WELLS WERE SAMPLED AND THREE SHOWED PCB LEVELS HIGHER THAN DETECTION LIMITS. BARIUM (Ba) WAS ABOVE DETECTION LIMITS AND INCREASED WITH DEPTH. SAMPLING AND ANALYSIS OF RSL WAS PERFORMED THREE TIMES BETWEEN 1983-1989. THE 5/83 PCB LEVELS WERE HIGHEST IN THE CENTER AND WEST REGIONS OF THE LAGOON WHILE LOWER IN THE EAST REGION. CU AND PB LEVELS WERE HIGH FOR LOWER DEPTHS SAMPLES. Cd WAS ALSO DETECTED. THE 5/86 DATA BY CANONIE, INC. SHOWED THAT THE CENTER OF THE LAGOON HAD THE HIGHEST LEVELS OF PCBs (730 ppm AS OPPOSED TO VALUES BELOW 100 ppm FOR EAST AND WEST REGIONS). THE 6/89 DATA SHOWED LOWER PCB LEVELS EXISTED IN THE OVERLYING LAGOON WATERS. THE 6/89 SAMPLING WAS LIMITED TO THE OVERLYING LAGOON WATERS IN ORDER TO EVALUATE BOTH ITS CHARACTER AND THE PROSPECTIVE UTILITY OF FILTRATION AS A MEANS OF REMOVING ITS "SUSPECTED" PARTICLE-BOUND PCB CONTAMINATION. HOWEVER, THE "AFTER FILTRATION" SAMPLES WERE VOID OF PCBs. FILTRATION WAS CONSIDERED A POTENTIAL METHOD OF TREATING THE LAGOON WATERS. PCBs WERE	PCB, Pb, Hg, Cd, Ba, Fe, Ni, As, Cu, Cr, Zn	GARY, SILLI

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					<p>FOUND TO HAVE AFFINITY FOR SLUDGE (SOLIDS) RATHER THAN LIQUIDS, THEREFORE, IT WAS UNLIKELY THAT SPREADING WOULD OCCUR. THE AVERAGE PCB CONCENTRATION IN 1983 WAS 224 ppm AND 238 ppm IN 1986, WHICH SUGGESTED PCBs WERE NOT LEAVING THE SITE AT A SIGNIFICANT RATE. NO PROBLEMS WITH METALS WERE APPARENT, EXCEPT FOR Hg. GROUND WATER SAMPLING SHOWED THAT AMMONIA NITROGEN, TOTAL DISSOLVED SOLIDS (TDS), SPECIFIC GRAVITY (SG), AND CHLORIDES (CL) INCREASED GOING FROM THE SOUTHEAST PORTION TO THE LAGOON TO THE NORTHWEST PORTION (THE DIRECTION OF GROUND WATER FLOW). MATERIALS WERE MOVING FROM THE LAGOON VIA GROUND WATER TRANSPORT TOWARD THE RIVER. HOWEVER PCBs DID NOT TRAVEL IN THIS MANNER. THERE APPEARED TO BE NO SIZEABLE MOVEMENTS OF METALS AND PCBs. PCBs WERE MAINLY PRESENT IN ONE WELL OVER THE 6-YEAR STUDY ONLY Hg WAS OBSERVED TO BE IN EXCESS OF DRINKING WATER STANDARDS. STUDIES PROVED THAT FLOW IN GCR IS HIGHLY VARIABLE AND DEPENDENT ON EFFLUENT FLOW RATES FROM UNITED STATES STEEL CORPORATION (STEEL) AND GSD. A STUDY BY U.S. GEOLOGICAL SURVEY SHOWED WATER QUALITY STANDARDS WERE VIOLATED FOR Fe, Pb, PHENOL, AND PHOSPHOROUS. A STUDY BY HYDROQUAL, INC. SHOWED VIOLATIONS FOR DISSOLVED OXYGEN, FECAL COLIFORM, AMMONIA, AND Hg NEAR STEEL OUTFALLS. ONLY FECAL COLIFORM REGULATIONS WERE VIOLATED IN THE VICINITY OF THE RSL. A 1986 STUDY BY CANONIE ENGINEERS, INC. SHOWED CONSISTENTLY LOW PCB LEVELS UPSTREAM, ADJACENT TO, AND DOWNSTREAM FROM RSL. NO EVIDENCE EXISTED INDICATING THAT THE LAGOON IS THE SOURCE OF PCB CONTAMINATION TO GCR VIA GROUND WATER BUT IT IS POSSIBLE THAT FLOODING OF THE LAGOON BY GCR COULD CAUSE PHYSICAL WITHDRAWAL OF PCBs FROM THE LAGOON. PREDOMINANT DIRECTION OF GROUND WATER FLOW WAS FOUND TO BE FROM THE LAGOON TO GCR BUT IT WAS POSSIBLE TO BE OPPOSITE AT TIMES. POLLUTANT CONCENTRATIONS INCREASED FROM SOUTHEAST TO NORTHWEST SUGGESTING SOUTHEAST TO NORTHWEST FLOW DIRECTION. INCLUDED WITH FINAL REPORT WERE INTERIM AND LONG TERM ALTERNATIVES FOR LONG TERM STABILIZATION OF RSL. Ni, Ag, Cu, Cr, AND Zn WERE ALSO SAMPLED BUT NO PARAMETERS WERE</p>		

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					GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF RESULTS		
792	05/31/89	WATER DIVISION	LINCOLN DONALDSON (GSD)	DONALD R. SCHREGERHUIS (EPA)	LETTER FROM GSD TO EPA THAT REAFFIRMED GSD'S COMMITMENT TO COMPLETE EPA'S TASKS OF A MODIFIED CONSENT DECREE OF SEPTEMBER 8, 1987. ATTACHED WAS A REPORT WITH PRELIMINARY RECOMMENDATIONS MADE BY CONSULTANTS, AND ANALYTICAL TEST RESULTS FOR SAMPLES TAKEN. GSD ACKNOWLEDGED THE RECOMMENDED ACTIONS AND BEGAN IMPLEMENTATIONS.	NONE LISTED	GART
329	05/12/89	WATER DIVISION	DEIRDRE TANAKA (EPA)	JACKIE SHROPSHIRE (GSD)	LETTER AND LIST OF COMMITMENTS FROM EPA TO GSD. EPA REQUESTED THAT GSD RESPOND IN WRITING TO VERIFY THAT GSD COMMITTED TO EACH TASK ON THE LIST (COMPLETION OF SAMPLING GEOLOGIC STUDY AND STABILIZATION PLANS).	NONE LISTED	GART
832	04/03/92	WATER DIVISION	ANNE WEINERT (EPA)	CLADE/TANAKA, JERRI ANNE CARL, SHELDON SIMON (EPA)	EPA LETTER AND ENCLOSED CORRESPONDENCE FROM GSD. EPA OFFICIAL REQUESTED COMMENTS FROM FELLOW WORKERS. GSD ENCLOSED A COPY OF CONTRACT IT ENTERED INTO WITH CONSULTANTS FOR THE COMPLETION OF RSL PROJECT. BACKGROUND INFORMATION, LIST OF TASKS TO BE COMPLETED, AND BUDGET FOR RSL PROJECT WAS INCLUDED. RSL HAS BEEN USED FOR SLUDGE DEPOSITION FOR OVER 2 DECADES. PCB CONTAMINATION WAS EVIDENT, BUT THE SOURCE WAS UNKNOWN. ESTIMATED PCB CONTENT OF ENTIRE LAGOON WAS 24,000 LBS BASED ON 50,000 TONS OF SLUDGE. EXCEPT FOR 8/29/86 REPORT, GSD HAS HAD LITTLE CONTACT WITH EPA AND IDEM REGARDING RSL. GSD WAS NEGLIGENT IN ITS SUBMISSION OF AN ACCEPTABLE CONTENT SAMPLING AND GEOTECHNICAL SAMPLING REPORT AS WELL AS THE DEVELOPMENT, REPORTING, AND IMPLEMENTATION OF SUITABLE INTERIM AND LONG-TERM SITE REMEDIATION.	PCB	GART

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0842	03/03/89	WATER DIVISION	DALE S. BRYSON (EPA)	KENNETH A. FENNER/LEO A. CATER (EPA)	MEMO WITHIN EPA FROM OFFICIAL WHO DEMANDED THAT STAFFS MUST TRY HARDER TO FULLY COORDINATE/BETTER ORGANIZE ALL SIGNIFICANT MATTERS PERTAINING TO THE CITIES OF GARY (GARY) AND HAMMOND	NONE LISTED	GARY
0843	08/29/88	WATER DIVISION	KAMAHURIT TALLURI (IAE, INC.)	ANNE WEIMERT (EPA)	IAE, INC. PROPOSAL FOR PCB DISPOSAL AT RSL. IAE PROPOSED A 2 PHASE LONG-TERM STABILIZATION PLAN FOR THE LAGOON. IN PHASE 1, A SLURRY, SOIL BENTONITE WALL WAS TO BE CONSTRUCTED SEPARATING THE LAGOON FROM THE GRAND CALUMET RIVER. ALSO, REGULAR GROUND AND SURFACE WATER MONITORING, WERE PROPOSED. PHASE 2 OF IAE'S PLAN WAS TO BIODEGRADE THE SLUDGE, WHICH WAS ALSO SUGGESTED BY MOTECH, INC. EPA DISAPPROVED OF BIODEGRADATION AS A SUITABLE METHOD FOR HANDLING PCB CONTAMINATED SLUDGE. INCLUDED WAS A PREPARED RESPONSE TO AN EPA LETTER OF 2/8/88. THE RESPONSE CONTAINED K & S TESTING AND ENGINEERING, INC.'S (K&S) REPORT ON SHORT TERM STABILIZATION, MONITORING WELL SURVEYS, AND A PROPOSAL FROM MOTECH, INC. TO BIODEGRADE PCBs. K&S STATED WITHIN THIS PROPOSAL THAT THE FLOW FROM THE RIVER TO THE LAGOON WAS POSSIBLE WHEN THE RIVER WATER LEVEL EXCEEDED THE LAGOON WATER LEVEL. MOTECH, INC. PROVIDED PLANS FOR BIODEGRADATION OF SLUDGE AND ALSO DOCUMENTED ITS PAST EXPERIENCE WITH BIOLOGICAL REMEDIATION, CITING DIFFERENT CLIENTS WHICH MOTECH, INC. SERVICED	PCB, AS, Bz	GARY
0862	05/05/88	WATER DIVISION	LORRIS RUSS (EPA)	ALLISON MITTNER (EPA)	DATA PORTION OF A FIELD INSPECTION TEAM REPORT ON THE NINTH AVENUE DUMP THAT SUMMARIZED FINDINGS OF WATER SAMPLE ANALYSES. ANALYSIS OF SAMPLES FOR TOTAL METALS AND CYANIDES SHOWED THAT LIMITS FOR Cu, Zn, AND Fe WERE EXCEEDED. SAMPLES WERE ALSO TESTED FOR VOLATILE AND SEMI VOLATILE ORGANICS, AS WELL AS PESTICIDES	Cu, Zn, Fe	GARY, NINTH

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0928	06/29/88	WATER DIVISION	L. J. SHEPARD (EPA)	GLENN WITTMAN (EPA)	INTEROFFICE MEMO AT EPA REGARDING FEASIBILITY STUDY FOR MIDCO 1, A FORMER INDUSTRIAL WASTE RECYCLING, STORAGE, AND DISPOSAL OPERATION IN GARY, INDIANA. IN 1976, FIRE DESTROYED 16,000 DRUMS WHICH HELPED IN DEGRADING THE AREA'S RESOURCES (GROUND WATER, SURFACE WATER, SOILS). THE FEASIBILITY STUDY AIMED TO REMEDIATE SURROUNDING SURFACE WATER SEDIMENTS AND ELIMINATE CONTAMINATION. SURFACE WATER CONCENTRATIONS OF INORGANICS EXCEEDED WATER QUALITY CRITERIA. THE TREATMENT TECHNIQUE SUGGESTED WAS APPLYING LIME TO PRECIPITATE DISSOLVED METALS.	NONE LISTED	GARY, MIDCO
0930	05/03/88	WATER DIVISION	MUNIRTO KEAMBIRIRO (GSD)	LONNIE BRIMFIELD (IDEM)	LETTER FROM GSD TO IDEM. GSD WAS ISSUED A NPDES PERMIT (NUMBER 0022977) ON 10/7/87. THROUGH RECORDS OF ANALYSIS, GSD'S WASTEWATER TREATMENT PLANT (NOT RSL; HOWEVER RSL IS PART OF THE SAME SEWAGE SYSTEM) WAS FOUND TO BE IN VIOLATION OF ITS NPDES PERMIT FOR CHLORIDES, PHENOLS, AND COPPER. MAJOR CONTRIBUTORS OF CHLORIDES WERE GROUND WATER FLOW AND RESIDENTIAL FLOW. GSD WAS IN VIOLATION OF BOTH INTERIM AND FINAL LIMITS. PHENOL LIMIT WAS ERRONEOUSLY REPORTED, THUS A FAILURE TO MEET A MORE STRINGENT LEVEL OCCURRED. GSD REQUESTED MODIFICATION OF PERMIT LIMITATIONS FOR PHENOLS, COPPER, AND CHLORIDES. COPPER WAS COMING FROM MAJOR INDUSTRIES AND RESIDENTIAL FLOW.	Cu	GARY
0933	03/29/88	WATER DIVISION	L. J. SHEPARD (EPA)	GLENN WITTMAN (EPA)	INTEROFFICE MEMO AT EPA REGARDING FEASIBILITY STUDY ON NINTH AVENUE DUMP, AN INACTIVE CHEMICAL AND INDUSTRIAL DISPOSAL AREA IN GARY, INDIANA. CONTAMINANTS FOUND IN SOIL AND SURFACE WATERS WERE PCBs, PAH's, METALS, PESTICIDES, DIOXINS, OIL, AND FURANS. GROUND WATER CONTAMINANT AND REMEDIATION WERE SUGGESTED AS ALTERNATIVES. GROUND WATER FLOW AT NINTH AVENUE DUMP WAS TO THE NORTH, AND INFILTRATES GRAND CALUMET RIVER AND LAKE MICHIGAN.	PCB, HCB, PAH, PH, OIL	GARY, NINTH

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0935	01/19/88	WATER DIVISION	JERRY HURST (EPA)	EPA STAFF	MEMO TO EPA STAFF REGARDING A PHONE CONVERSATION WITH OFFICIAL OF GARY REGIONAL AIRPORT (AIRPORT). THE AIRPORT PLANNED TO PURCHASE AVIATION EASEMENTS ON CONSERVATION CHEMICAL CO. (CCC) PROPERTY. THE AIRPORT ALSO WANTED TO PURCHASE LAND FROM HOOSIER STATE TRUST PROPERTY THAT NEIGHORED CCC.	NONE LISTED	GARY, III, AIRPRI, HURSTER
0936	02/02/88	WATER DIVISION	JERRY HURST (EPA)	EPA STAFF	MEMO TO EPA STAFF REGARDING CONVERSATION WITH OFFICE OF REGIONAL COUNSEL ABOUT GARY REGIONAL AIRPORT'S PLAN FOR BUYING CONSERVATION CHEMICAL COMPANY'S PROPERTY. EPA USUALLY DOES NOT TAKE OVER A SITE BUT RESTRICTIONS ON LAND SUCH AS CONSERVATION CHEMICAL CO.'S RANGED FROM 20 TO 70 YEARS.	NONE LISTED	GARY, CCC, AIRPRI
0937	02/01/88	WATER DIVISION	MORTYO KRAMBROIRO (GSD)	JAMES J. AMBROSIO (LAND AND LAKES CO.)	LETTER REGARDING A 2/2/88 AGREEMENT BETWEEN GSD AND LAND AND LAKES CO. (LDLCO) WHICH ALLOWED GSD TO DISPOSE OF SLUDGE AT LDLCO. CONDITIONS WERE SET PERTAINING TO DISPOSAL METHODS, COSTS, AND REQUIREMENTS. LDLCO WANTED PCB CONCENTRATIONS IN RSL'S SUPERNATANT TO BE BELOW 25 ppm AND GSD ACKNOWLEDGED THIS	PCB	GARY, LDLCO
0939	12/19/87	WATER DIVISION	SUZANNE GLADE (EPA)	B. FREY, M. SMITH, D. ULLRICH, A. WEINERT, M. MIZULKA, K. FENNER, T. BRANCHER, D. BRYSON (EPA)	MEMO REGARDING A MEETING BETWEEN EPA, GSD, U.S. ATTORNEY'S OFFICE, AND CONSULTANTS TO DISCUSS GSD'S PETITION FOR MODIFICATION AND DEADLINE FOR CLOSING THE RSL. GSD COULD NOT PROPOSE A SCHEDULE FOR CLOSING RSL. EPA INFORMED GSD THAT VIOLATIONS EXISTED FOR PHENOL LIMITS. GSD ATTRIBUTED HIGH PHENOLS TO UNITED STATES STEEL CORPORATION WASTEWATER. A DISCUSSION ABOUT THE GSD WASTEWATER TREATMENT PLANT DIGESTER SYSTEM (ANOTHER PART OF GSD SYSTEM) IS ALSO STATED. A DIGESTION SYSTEM FOR THE PCB CONTAMINATED SLUDGE WENT INTO OPERATION ON	NONE LISTED	GARY, STEEL

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					12/1/87 IN THIS SYSTEM, SLUDGE WAS ROUTED TO VARIOUS DIGESTERS RATHER THAN TO THE LAGOON.		
0942	12/08/87	WATER DIVISION	DALE S. BRYSON (EPA)	JAMES T. AMBROSIO (LAND AND LAKES CO.)	LETTER FROM EPA TO LAND AND LAKES COMPANY (LDLCCO) REGARDING CONCERNS ASSOCIATED WITH GSD DISPOSAL OF SLUDGE AT LDLCCO. LAB RESULTS OBTAINED BY GSD INDICATED NO DETECTABLE TRACES OF PCB. LDLCCO WAS CONCERNED THAT ACCEPTING SLUDGE FROM GSD MIGHT IMPACT THEIR "NON-HAZARDOUS" STATUS.	PCB	GARY, LDLCCO
0944	11/13/87	WATER DIVISION	GARY M. SIEGEL (HAVENS & EMERSON, INC.)	SUZANNE GLADE (EPA)	LETTER FROM CONSULTANTS, HAVENS AND EMERSON, INC. (HEI) TO EPA REGARDING GSD SLUDGE DISPOSAL PROJECT. HEI RESPONDED TO EPA'S INQUIRY OF THE DIGESTERS IN USE AS WELL AS THE WHOLE DIGESTION PROCESS. EPA WAS CONCERNED ABOUT SINKHOLES NEAR ONE DIGESTER WHERE SAND WAS ENTERING A BROKEN PIPE AND SETTLING. THE PIPE WAS REPAIRED. DISCHARGES TO RSL WERE PROJECTED TO GREATLY INCREASE AFTER 12/1/87. HEI INDICATED THAT AS THE BIOLOGICAL DIGESTION PROCESS BECOMES ESTABLISHED THE COMPLETE ABANDONMENT OF THE RSL WOULD OCCUR SOON AFTER.	NONE LISTED	GARY
0948	09/22/87	WATER DIVISION	NOT LISTED	NOT LISTED	SITE SPILL IDENTIFIER DISTRIBUTION REPORT (WHICH INCLUDES GARY).	NONE LISTED	GARY
0973	07/31/87	WATER DIVISION	NOT LISTED	NOT LISTED	REMEDIAL ACTIVITIES REPORT	NONE LISTED	NONE LISTED
0979	07/17/87	WATER DIVISION	SHELDON S. SIMON (EPA)	ANNE WEINERT (EPA)	EPA'S REVIEW OF GSD'S PROPOSAL FOR THE RSL. PROPOSED CONSTRUCTION OF SLURRY WALL WAS UNACCEPTABLE FOR LONG-TERM CONTAINMENT OF PCB-CONTAMINATED MATERIAL. EPA SUGGESTED BUILDING A VAULT OR LANDFILL SOLELY FOR THIS MATERIAL; AN ALTERNATIVE TO INCINERATION OR LANDFILLING WOULD POSSIBLY BE "VAPORIZATION" OF PCBs FROM SUBSTRATES	PCB	GARY

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					AND CONTAINMENT OF VOLATILIZED PCBs.		
0982	06/17/87	WATER DIVISION	WILLIE H. HARRIS (EPA)	ARNOLD E. LEDER (EPA)	EVALUATION FORM AND COMPLIANCE SAMPLING INSPECTION REPORT FOR GSD'S WASTEWATER TREATMENT PLANT. GSD SUBMITTED A REQUEST ON 4/15/87 TO MODIFY THE CONSENT JUDGEMENT SCHEDULE FOR CEASING THE USE OF THE RSL FOR SLUDGE DISPOSAL. AN INSPECTION ON 5/12/87 SHOWED GSD TO BE IN POOR STANDING WITH REGARDS TO SELF-MONITORING PROGRAMS. EFFLUENT OF GSD HAD HIGH LEVELS OF PHENOLS AND CYANIDES. LAST YEAR, UNITED STATES STEEL CORPORATION HAD A PHENOL-TYPE DISCHARGE WHICH SEVERELY AFFECTED BIOLOGICAL ACTIVITY.	NONE LISTED	GARY, STEEL
1024	06/02/87	WATER DIVISION	MOTIRYO KEAMBIROIRO (GSD)	THOMAS L. BRAMSCHER (EPA)	LETTER FROM GSD TO EPA WITH ENCLOSED CORRESPONDENCE RELATING TO SEVERAL ATTEMPTS TO ACQUIRE LANDFILL PERMIT FOR SLUDGE DISPOSAL. HEAVY METALS WERE MONITORED (As, Ba, Cd, Cr, Pb, Hg, Cu, Ni, Zn). ANALYSIS OF GSD SLUDGE SHOWED NO RECOGNIZABLE PCBs. GSD WAS REJECTED AND DENIED BY WHEELER AND C.I.D. LANDFILLS AND ALSO BY HAMMOND SANITARY DISTRICT. ATTACHED WERE LETTERS OF REJECTION AS WELL AS SLUDGE ANALYSIS AND WASTE PROFILES OF GSD'S SLUDGE. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF RESULTS.	As, Ba, Cd, Cr, Pb, Hg, Cu, Ni, Zn	GARY
1036	05/15/87	WATER DIVISION	MOTIRYO KEAMBIROIRO (GSD)	DEBORAH L. MENILOZ (CID PROCESSING CENTER)	LETTER FROM GSD TO CID PROCESSING CENTER REQUESTING RESPONSES AND CLARIFICATION AS TO WHY GSD WAS DENIED A PERMIT TO USE CID LANDFILL. THE ENSUING RESPONSES FROM CID WERE ATTACHED; CID-11 LANDFILL REJECTED THE SLUDGE AND ALSO "WASTEWATER TREATMENT SLUDGE" AT WHEELER LANDFILL; CID DENIED GSD PERMIT BECAUSE MATERIAL MAY CONTAIN LEVELS OF TSCA REGULATED MATERIALS (PCBs).	PCB	GARY

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1038	05/04/87	WATER DIVISION	NORMAN WIEDERLANG (EPA)	CERCLA ENFORCEMENT SECTION STAFF	UPDATED LIST OF COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) SITE ASSIGNMENTS, INCLUDING THE RSL AND OTHER REMOVAL SITES.	NONE LISTED	GARY
1062	08/29/86	WATER DIVISION	MILIRTO KEAMBIRIRO (GSD)	ERIC COHEN (EPA)	TRANSMITTAL LETTER AND SAMPLING REPORT (GEOLOGIC AND CONTENT) OF RSL SUBMITTED TO EPA BY INDO-AMERICAN ENGINEERS, INC. (IAE). PRELIMINARY REPORT INDICATED THAT SITE GROUND WATER ORIGINATES FROM DIRECT INFILTRATION DUE TO RAINFALL, DISCHARGE OF SEWAGE TO THE LAGOON, AND THE GRAND CALUMET RIVER (GCR). DESCRIPTION OF SOIL, BEDROCK, AND HYDROGEOLOGY WERE PROVIDED. STABILITY PROBLEMS EXISTED DUE TO THICK VEGETATION AREA BETWEEN GCR AND RSL. ONLY BARIUM (Ba) LEVELS IN THE WATER WERE HIGHER THAN THE ALLOWED MAXIMUM CONTAMINANT LEVELS. ATTACHED DATA AND RESULTS INDICATED THE ABOVE MENTIONED CONTAMINATION (PCBs, Ba). PERTINENT TABLES, FIGURES, AND APPENDICES CONTAINING SOIL BORING LOGS, PHYSICAL LAB TEST RESULTS, AND OBSERVATION WELL CONSTRUCTION DETAILS WERE INCLUDED.	PCB, Ba	GARY
1123	12/31/85	WATER DIVISION	VALDAS V. ADAMKUS (EPA)	COURTNEY M. PRICE (EPA)	MEMO, DATASHEET, AND LITIGATION REPORT REGARDING VIOLATIONS OF THE TOXIC SUBSTANCE CONTROL ACT (TSCA) BY CITY OF GARY (GARY) AND GSD. EPA REFERRED CIVIL ACTION VS. GSD AND GARY FOR THE RSL SLUDGE HAVING PCB CONCENTRATIONS EXCEEDING 50 ppm. ON 5/4/83, ANALYSIS OF THE SLUDGE SHOWED PCB LEVELS AT FIVE OF SIX SAMPLING SITES TO BE GREATER THAN 50 ppm, WITH VALUES EXCEEDING 500 ppm AT TWO SITES. GARY AND GSD RECEIVED APPROVAL FROM EPA AND THE STATE OF INDIANA FOR A CONSTRUCTION GRANT TO BUILD A SLUDGE DEWATERING FACILITY ON SITE IN ATTEMPTS TO MEET REQUIREMENTS OF 40 CFR 761 AND	PCB	GARY

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					THE CLEAN WATER ACT THE ACTUAL COMPLAINT, AS WELL AS MAPS, LAB RESULTS, AND FIGURES ARE INCLUDED.		
1160	UNDATED	WATER DIVISION	NOT LISTED	NOT LISTED	FEASIBILITY STUDY FOR THE DISPOSAL OF PCBs FOUND IN THE RSL SLUDGE. TESTING OF THE SLUDGE INDICATED THE AVERAGE PCB LEVELS WERE 220 mg/kg, EQUALING A TOTAL OF TEN TONS OF PCBs IN THE LAGOON. BASED ON GROUND WATER DATA, THE QUALITY OF THE GROUND WATER WAS NOT ADVERSELY AFFECTED BY PCBs IN THE LAGOON SLUDGE ATTACHED TO THE STUDY IS A SUMMARY OF THE MOST COST EFFECTIVE DISPOSAL ALTERNATIVE (ON-SITE CONTAINMENT AND ENCAPSULATION) THE FACILITIES WERE EXPECTED TO BE ON LINE IN 1989, WITH THE CONTAINMENT COMPLETED BY 1988	PCB	GARY
1164	UNDATED	WATER DIVISION	ALLISON HILMER	MOTRYRIO REABIRIGRIO (GSD)	LETTER PRECEDING A 5/12/87 SAMPLING INSPECTION REPORT OF GSD'S SEWAGE SYSTEM DONE BY EPA. FINDINGS INDICATED NON-COMPLIANCE EXISTED FOR A SCUM INCINERATOR (NOT OPERATING), SAMPLERS (EQUIPMENT WAS NOT MAINTAINED PROPERLY), SAND FILTERS (NOT OPERATING), MONITORING FLOW CHARTS (OUT OF STOCK), CONSTRUCTION SCHEDULE, AT OTHER PARTS OF GSD SYSTEM AND PHENOL LEVELS AT GARY WASTEWATER TREATMENT PLANT AND RSL (FOUND TO BE IN EXCESS OF PERMIT LEVEL).	NONE LISTED	GARY
1167	11/08/85	WATER DIVISION	JOSEPH C. STALLSMITH (ISBH)	JAMES MEIER (GSD)	LETTER FROM INDIANA STATE BOARD OF HEALTH (ISBH) TO GSD REGARDING RSL SAMPLING PROPOSAL. SYNOPSIS OF PAST STUDIES REVEALED THE LAGOON SLUDGE TO BE HEAVILY CONTAMINATED WITH PCBs. GROUND WATER WELLS HAD HIGH LEVELS OF AMMONIA-NITROGEN, TOTAL ORGANIC CARBON (TOC), TOTAL DISSOLVED SOLIDS (TDS), AND TOTAL ORGANIC HALOGEN (TOH), AS WELL AS PCBs, CHLORIDES, AND PHOSPHATES. GSD'S PROPOSAL WAS INSUFFICIENT IN DETAIL AND FELL SHORT IN THE SCOPE OF WORK TO BE DONE. ISBH MADE REQUESTS FOR IMPROVING THE PROPOSAL.	PCB	GARY

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1172	03/22/85	WATER DIVISION	RAO B PATURI (GSD)	ALLAN BAUMANN (EPA)	LETTER AND DATA REGARDING PCBs IN RSL'S SUPERNATANT. THE RESULTS SHOWED CONCENTRATION OF PCBs IN WATER SAMPLE OF 1/21/85 TO BE LESS THAN 0.005 ppm	PCB	GARY
1174	07/29/85	WATER DIVISION	RAMAKIRIT TALLURI (IAE)	STEVE WOLFE (ISBH)	LETTERS AND COST ANALYSIS REGARDING AN ALTERNATE DESIGN FOR RSL. LAB RESULTS OF 5/83 SHOWED AVERAGE PERCENTAGE OF SOLIDS IN RSL TO BE 7.2% BY INCREASING SOLIDS TO 25-30%, THE LAGOON COULD BE USED FOR 20 ADDITIONAL YEARS. INDO-AMERICAN ENGINEERS (IAE) RECOMMENDED CONSTRUCTION OF SOIL-BETONITE CUT-OFF WALL, SLUDGE STABILIZATION, AND PLACEMENT OF A CLAY CAP UPON CLOSURE.	NONE LISTED	GARY
1177	04/24/85	WATER DIVISION	MOTIRYO KEAMBIROIRO (GSD)	ALLAN BAUMANN (EPA)	LETTER AND SECOND REPORT REGARDING MONITORING WELLS AROUND THE RSL. SAMPLES WERE FROM FEBRUARY 1985, AND OCTOBER 1984. PARAMETERS MEASURED FOR INCLUDED: AMMONIA NITROGEN, pH, CONDUCTIVITY, PHOSPHOROUS, AND CHLORIDES	NONE LISTED	GARY
1183	12/27/84	WATER DIVISION	NOT LISTED	NOT LISTED	NOTES PERTAINING TO RSL ON 8/10/83, PCBs IN WELLS WERE LESS THAN 0.10 ppb. A 50-FOOT SLURRY WALL WAS PROPOSED FOR PURPOSES OF CONTAINMENT.	PCB	GARY
1184	UNDATED	WATER DIVISION	IAE, INC (GSD)	NOT LISTED	FEASIBILITY STUDY ON RSL COMPLETE WITH A SUMMARY, A LIST OF CRITERIA FOR ALTERNATE DISPOSAL METHODS, SAMPLING AND SITE LOCATION MAPS, COST SCHEMES, AND APPENDICES WHICH INCLUDED BORING LOGS AND ANALYSES OF GROUND WATER MONITORING WELLS. RSL HAD PCB LEVELS AVERAGING 220 ppm IN THE SLUDGE. NO APPARENT GROUND WATER CONTAMINATION WAS DETECTED BUT GSD MADE ARRANGEMENTS TO SAMPLE MONITORING	PCB	GARY

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					WELLS FOR PCBs. THE STUDY REVEALED THE MOST COST EFFECTIVE METHOD FOR DISPOSAL TO BE ON-SITE CONTAINMENT/ENCAPSULATION. INFLUENT AND EFFLUENT WATER HAD BEEN TESTED FOR PCBs, BUT NO PCBs WERE DETECTED, INDICATING THAT PCBs LEVELS IN THE LAGOON WERE NOT INCREASING.		
1226	07/12/84	WATER DIVISION	ANAVIND HIZUMDAR (GSD)	JOSEPH C. STALLSMITH (ISBH)	LETTERS FROM GSD TO INDIANA STATE BOARD OF HEALTH (ISBH) WHICH STATED GSD DOES NOT FEEL THAT A HEARING (ENFORCEMENT) IS NECESSARY WITH REGARDS TO PCB LIMIT VIOLATIONS AT THE RSL. GSD REQUESTED INFORMATION TO HELP IT DETERMINE METHOD FOR CORRECTING ANY GROUND WATER POLLUTION POTENTIALLY LEACHING OUT OF THE LAGOON. A LETTER FROM ISBH THAT INFORMED GSD OF RECOMMENDED ENFORCEMENT HEARING CONCERNING PCBs VIOLATIONS WAS ATTACHED.	PCB	GARY
1228	04/04/84	WATER DIVISION	DAN STRAHL (ISBH)	EARL BOHRER (ISBH)	INDIANA STATE BOARD OF HEALTH MEMO AND REPORT REGARDING RSL AND GSD. THE MEMO STATED THAT DUE TO HIGH LEVELS OF PCBs IN THE RSL SLUDGE, DISPOSAL WOULD BE QUITE INVOLVED. POLYTECH INC. PLANNED TO MEET WITH GSD TO INFORM IT OF PROBLEMS ASSOCIATED WITH THE CLEANUP PROJECT. THE REPORT INCLUDED: A BRIEF HISTORY OF RSL; MONITORING WELL RESULTS AND TABLES; LAGOON RESULTS; DATA; TABLES; CONCLUSIONS, MAPS; AND FIGURES PERTAINING TO RSL AND THE SLUDGE PROBLEMS. INSPECTIONS LED TO THE DISCOVERY THAT RAW SLUDGE IS DISCHARGED DAILY FROM GARY WASTEWATER TREATMENT PLANT TO RSL. THE LAGOON WAS AT THE OVERFLOW POINT ON 3/15/83 WHILE THE OVERFLOW STRUCTURE WAS INADEQUATE. THIS ALLOWED DISCHARGE INTO THE LITTLE CALUMET RIVER. THE LAGOON LEVEES WERE OBSERVED TO BE LEACHING. MONITORING WELL RESULTS INDICATED AMMONIA LEVELS WERE VERY LOW IN UPGRADIENT WELLS AND VERY HIGH IN DOWNGRADIENT WELLS, WHICH INDICATED NEGATIVE EFFECTS OF THE LAGOON ON GROUND WATER QUALITY. TOTAL ORGANIC CARBON (TOC) WAS HIGHER IN DOWNGRADIENT WELLS INDICATING THAT THE LAGOON	PCB, CU	GARY

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					LEACHATE WAS AFFECTING THE GROUND WATER. PCB CONCENTRATIONS IN ONE WELL WERE ABOVE THE 0.1 ppb DETECTION LIMIT AND ELEVATED CONCENTRATIONS WERE OBSERVED FOR TOTAL ORGANIC HALOGENS. CADMIUM (Cd) WAS FOUND TO BE ABOVE MAXIMUM CONTAMINANT LEVEL IN 3 OF 6 WELLS. THE LAGOON RESULTS SHOWED THAT SIXTEEN OF THIRTY SAMPLES CONTAINED PCBs IN EXCESS OF 50 mg/kg, MAKING RSL A TOXIC WASTE SITE AND SUBJECTING IT TO TOXIC SUBSTANCES CONTROL ACT (TSCA).		
1258	01/04/82	WATER DIVISION	ARAVIND MUZUMDAR (GSD)	ALAN BAUMANN (EPA)	A LETTER OF CONFIRMATION AND LAB RESULTS/ANALYSIS OF RSL RAW SLUDGE SAMPLES. THE RESULTS INDICATED THAT THE SLUDGE WAS NOW BELOW THE REQUIRED LIMITS FOR EPA PRIORITY POLLUTANTS (INCLUDING PCBs, METALS, ORGANICS, TOXAPHENE, As, Ba, Cd, CYANIDE, Cu, Pb, Hg, Ni, Zn, OIL AND GREASE). NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.	TOXAP, As, Ba, Cd, Cu, Ni, Zn, PCB, OIL	As, Pb, Hg, GARY
1274	10/25/83	WATER DIVISION	DONALD GIPPLE (GULF COAST LABS, INC)	A. MUZUMDAR (GSD)	LAB RESULTS FOR SAMPLES TAKEN ON 9/20/83 FROM RSL. PARAMETERS MEASURED WERE: ARSENIC, BARIUM, CADMIUM, CHLORIDE, CHROMIUM, LEAD, MERCURY, PCBs, pH, NITROGEN (AMMONIA, NITRATES, NITRITES), PHENOLS, POTASSIUM, SELENIUM, SILVER, PHOSPHATES, TOTAL ORGANIC CARBONS, AND TOTAL DISSOLVED SOLIDS. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.	As, Ba, Cd, Cr, Pb, Hg, PCB	GARY
1286	08/18/83	WATER DIVISION	SALISBURY ENGINEERING	FILE	DIAGRAM/SKETCH OF RSL AT LITTLE CALUMET RIVER. SOIL BORINGS WERE SHOWN IN APPROXIMATE LOCATIONS.	NONE LISTED	GARY
1288	09/16/83	WATER DIVISION	DONALD GIPPLE (GULFCOAST LABS, INC)	A. MUZUMDAR (GSD)	SAMPLE RESULTS/ANALYSIS OF SLUDGE SAMPLES TAKEN ON 8/10/83 AT RSL. AMONG THE PARAMETERS MEASURED WERE As, Ba, Cd, Cr, Pb, Hg, ORGANICS, AND PCBs. NO	PCB, As, Ba, Cd, Cr, Pb, Hg	GARY

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					PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.		
1310	05/24/83	WATER DIVISION	DONALD GIPPLE (GULFCOAST LABS, INC.)	MR MUZUMDAR (UCU)	LETTER, MAP, AND SAMPLE ANALYSES REGARDING SAMPLES OF SIX LOCATIONS AT RSL. SAMPLES WERE TAKEN AT DIFFERENT DEPTHS. PCBs WERE ABOVE MAXIMUM CONTAMINANT LEVELS FOR OVER ONE HALF OF THE SAMPLES TESTED. FOR FEW SAMPLES, CADMIUM WAS ABOVE THE MAXIMUM CONTAMINANT LEVEL. OTHER METALS WERE MONITORED (Pb, Ni, Cu, Zn).	PCB, Pb, Ni, Cd, Cu, Zn	GARY
1331	UNDATED	WATER DIVISION	NOT LISTED	NOT LISTED	RESULTS OF GROUND WATER ANALYSIS FOR SIX MONITORING WELLS OF RSL. WELL NUMBER SIX (6) SHOWED PCB LEVELS ABOVE THE DETECTION LIMITS. SAMPLES WERE TAKEN ON 8/10/83, 9/20/83, AND 7/16/84. OTHER CRITICAL CONSTITUENTS SAMPLED INCLUDED As, Ba, Cd, Pb, AND Hg. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.	PCB, As, Ba, Cd, Pb, Hg	GARY

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0001	10/05/90	NONE LISTED	LETTER OF RESPONSE FROM GSD REGARDING EPA'S REQUEST FOR INFORMATION PURSUANT TO CERCLA 104(e). GSD ACQUIRED RSL IN 1964 - SLUDGE WAS TRANSPORTED TO LAGOON FROM 1964 TO APRIL 1, 1988. RSL WAS FORMERLY A BORROW PIT. INDIANA STATE BOARD OF HEALTH (ISBH) APPROVED USE OF RSL FOR SLUDGE STORAGE BY GSD. SLUDGE WAS GENERATED AT GARY WASTEWATER TREATMENT PLANT. GSD ESTIMATED THAT THE RSL CONTAINED 100 MILLION GALLONS OF SLUDGE AND WATER. INDIANA STATE TOLL ROAD WAS LISTED AS RSL'S PRIOR OWNER.
0006	05/24/83	PCB, Pb, Ni, Cd, Cu, Zn	LAB RESULTS AND CHEMICAL ANALYSES FOR RSL SLUDGE SAMPLES. SAMPLES WERE TAKEN AND ANALYZED FOR DIFFERENT DEPTHS AND THE CORRESPONDING PARAMETERS WERE MEASURED: Cd, Cu, Pb, Zn, Ni, PCBs, PHOSPHOROUS, POTASSIUM, NITROGEN, AND TOTAL SOLIDS.
0036	09/11/56	NONE LISTED	COPY OF WARRANTY DEED AND PROOF OF PRIOR OWNERSHIP (1956) TRANSFERRED FROM UNION BUILDING AND CONSTRUCTION CORPORATION TO THE STATE OF INDIANA TOLL ROAD COMMISSION.
0041	UNDATED	NONE LISTED	HAP WHICH SHOWED LOCATIONS OF MONITORING WELLS AT RALSTON STREET LAGOON.
0042	VARIOUS	PCB, Pb, Hg, Ni, Cd, As, Cu, Cr, Zn, Ba, Mn, Fe	GROUND WATER SAMPLING DATA FROM RSL DURING THE PERIOD OF 9/7/83 TO 6/22/89. PARAMETERS INCLUDED: As, Ba, Cd, CHLORIDE, Mn, Cu, Fe, Zn, Ni, Cr, Pb, Hg, PCBs, NITROGEN (AMMONIA, NITRATES), POTASSIUM,

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			SELENIUM, SILVER, pH, TOTAL DISSOLVED SOLIDS, PHENOLS, PHOSPHATES, TOTAL ORGANIC CARBONS, TOTAL ORGANIC HALOGENS. SAMPLES WERE TAKEN FROM SIX DIFFERENT WELLS (LOCATIONS) AND MONITORED FOR THE ABOVE PARAMETERS BY GULF COAST LABORATORIES. NO PERMISSIBLE LEVELS OF INFORMATION WERE PROVIDED FOR COMPARISON AND ANALYSIS OF THE SAMPLING RESULTS.
0167	UNDATED	NONE LISTED	PART OF GSD'S RESPONSE TO CERCLA 104(e) REQUEST FOR INFORMATION. INCLUDED IN THIS APPENDIX WERE SITE SOIL PROFILE DIAGRAMS, BORING LOCATIONS, BORING DATA, SOIL SAMPLING DATA, AND A SKETCH SHOWING THE LOCATION OF THE BERM GAP TO BE FILLED WITH SLAG, SAND, AND POSSIBLY WITH JUNK AUTO BOOIES. THE SOIL PROFILES WERE COMPILED FROM DATA TAKEN AT 11 BORING LOCATIONS ALONG THE NORTH AND SOUTH SIDE OF RALSTON STREET LAGOON. RESULTS SHOW A UNIFORM WATER TABLE AT AN AVERAGE ELEVATION OF 583 FEET, LOCATED 3 TO 6 FEET BELOW THE SURFACE. THE SOIL STRATUM IS COMPRISED OF A BOTTOM LAYER OF GREY CLAY EXTENDING FROM AN APPROXIMATE DEPTH OF 34 FEET DONWARDS, A MIDDLE LAYER OF MEDIUM TO DENSE GREY FINE SAND BEGINNING AT A DEPTH OF APPROXIMATELY 7 FEET SLOPING DOWNWARD APPROXIMATELY 8 FEET FROM THE SOUTH SIDE TO THE NORTH SIDE, AND A TOP LAYER OF BROWN FINE SAND OF VARYING DENSITY. ON THE NORTH SIDE OF THE LAGOON, THE MIDDLE SAND LAYER SHOWS INCONSISTENT LAYERS OF SAND WITH TRACE ORGANICS OF SOFT PEAT.

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0001	10/05/90	NONE LISTED	LETTER OF RESPONSE FROM GSD REGARDING EPA'S REQUEST FOR INFORMATION PURSUANT TO CERCLA 104(e). GSD ACQUIRED RSL IN 1964 - SLUDGE WAS TRANSPORTED TO LAGOON FROM 1964 TO APRIL 1, 1988. RSL WAS FORMERLY A BORROW PIT. INDIANA STATE BOARD OF HEALTH (ISBH) APPROVED USE OF RSL FOR SLUDGE STORAGE BY GSD. SLUDGE WAS GENERATED AT GARY WASTEWATER TREATMENT PLANT. GSD ESTIMATED THAT THE RSL CONTAINED 100 MILLION GALLONS OF SLUDGE AND WATER. INDIANA STATE TOLL ROAD WAS LISTED AS RSL'S PRIOR OWNER.
0036	09/11/56	NONE LISTED	COPY OF WARRANTY DEED AND PROOF OF PRIOR OWNERSHIP (1956) TRANSFERRED FROM UNION BUILDING AND CONSTRUCTION CORPORATION TO THE STATE OF INDIANA TOLL ROAD COMMISSION.

ALL INFORMATION ABOVE (EXCLUDING SUMMARIES) WAS TAKEN VERBATIM FROM THE COMPILED DOCUMENTS

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0036	09/11/56	NONE LISTED	COPY OF WARRANTY DEED AND PROOF OF PRIOR OWNERSHIP (1956) TRANSFERRED FROM UNION BUILDING AND CONSTRUCTION CORPORATION TO THE STATE OF INDIANA TOLL ROAD COMMISSION.

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0335	04/16/91	Pb, Hg, Ni, Cd, As, Cr, Zn, Fe, OIL	EFFLUENT DISCHARGE REPORTS FOR SELECTED FACILITIES IN GARY AREA. INDUSTRIES MONITORED INCLUDED: ENERGY COOPERATIVE, INC. (ECI); LTV STEEL CO., INC. (LTV); GSD; AMOCO OIL CO. (AMOCO); HAMMOND MUNICIPAL SEWAGE TREATMENT PLANT; GARY WASTEWATER TREATMENT PLANT; AND E.I. DUPONT DE NEMOURS & CO. (DUPONT). RESULTS OF EFFLUENT TESTED FOR OIL AND GREASE, TOTAL SOLIDS, GROSS FLOW, NITROGEN, AMMONIA, CHLORIDE, SULFATE, FLUORIDE, Fe, PHENOLICS, TIN, Pb, CYANIDE, Cd, GROSS OXYGEN DEMAND, POTASSIUM, As, Cr, Cu, Hg, BIOCHEMICAL OXYGEN DEMAND AND SELENIUM. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.

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0200	11/18/81	NONE LISTED	LETTER FROM GARY SANITARY DISTRICT (GSD) TO U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) WITH ENCLOSED RESPONSE TO A PRIOR INQUIRY BY INDIANA STATE BOARD OF HEALTH (ISBH). THE RESPONSE FROM GSD TO ISBH EXPLAINED THAT GSD HAD NOT IMPLEMENTED REQUIREMENTS OF A PROGRAM FOR INTERIM STATUS REQUIREMENTS DUE TO AN UNDERSTANDING THAT IT WAS NOT REQUIRED TO. GSD SLUDGE WAS FOUND TO BE NONHAZARDOUS. GSD PREFERRED TO MAINTAIN AN INTERIM STATUS WITHOUT HAVING TO IMPLEMENT STANDARD REQUIREMENTS OF 40 CFR 265 BECAUSE THEIR SLUDGE WAS NONHAZARDOUS. COPY OF AN EPA PROGRAM OPERATIONS MEMORANDUM 80-4 IS ATTACHED, WHICH EXPLAINS HOW TO DETERMINE WHETHER SLUDGES ARE HAZARDOUS.
0223	UNDATED	NONE LISTED	INSPECTION REVIEW FORM FOR GSD. STATE (INDIANA) SENT WARNING LETTER ON 10/28/81 TO GSD FOR ITS RSL BEING OUT OF COMPLIANCE.
0225	01/29/85	NONE LISTED	NOTIFICATION THAT GSD HAD ITS PART A HAZARDOUS WASTE APPLICATION (FOR HAZARDOUS SLUDGE) WITHDRAWN. GSD WAS GIVEN A STATUS OF INACTIVE NON-HANDLER, CODE 1.
0226	02/22/82	NONE LISTED	LETTER FROM GSD TO EPA WHICH STATED GSD WAS WILLING TO WITHDRAW PART A APPLICATION OR HAVE EPA TERMINATE GSD'S DESIGNATION OF INTERIM STATUS.

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0227	11/18/81	NONE LISTED	LETTER FROM GSD TO EPA WITH ENCLOSED RESPONSE TO INDIANA STATE BOARD OF HEALTH'S (ISBH) PRIOR INQUIRY REGARDING WITHDRAWAL OF RCRA PART A APPLICATION. RESPONSE INDICATED THAT GSD HAD NOT IMPLEMENTED REQUIREMENTS OF PROGRAM DUE TO UNDERSTANDING IT WAS NOT REQUIRED TO. GSD'S SLUDGE WAS FOUND TO BE NONHAZARDOUS. GSD PREFERRED TO MAINTAIN AN INTERIM STATUS WITHOUT HAVING TO IMPLEMENT STANDARD REQUIREMENTS OF 40 CFR 265 BECAUSE SLUDGE WAS NONHAZARDOUS.
0231	10/28/81	Pb, Cr	LETTER FROM ISBH TO GSD WHICH DETAILED CONCERNS PERTAINING TO FACILITY OPERATION AT GSD. OBSERVATIONS REVEALED: LACK OF WASTE ANALYSIS PLAN, LACK OF: "DANGER - UNAUTHORIZED PERSONNEL KEEP OUT" SIGN, INSPECTION SCHEDULES, INFORMATION CONCERNING PERSONNEL TRAINING, REQUIRED EQUIPMENT, EMERGENCY ARRANGEMENTS, CONTINGENCY PLAN, EMERGENCY COORDINATOR, OPERATING RECORDS, AND CLOSURE PLANS. REVIEW OF FILES ON GSD INDICATED PAST LEVELS OF Pb AND Cr IN SLUDGE WERE ABOVE PERMISSIBLE LEVELS BUT CURRENTLY WERE BELOW RCRA STANDARDS. THE LETTER ALSO INFORMED GSD OF A 9/24/81 INSPECTION BY THE INDIANA STATE BOARD OF HEALTH. GSD'S RCRA HAZARDOUS WASTE PERMIT APPLICATION CONTAINED PROCESS CODE (S04) INDICATING SURFACE IMPOUNDMENT HAZARDOUS WASTE STORAGE. SINCE WASTE (SLUDGE) WAS FOUND TO BE NONHAZARDOUS, GSD WANTED TO WITHDRAW ITS RCRA PART A PERMIT APPLICATION AND TERMINATE ITS INTERIM STATUS. GSD WAS INSTRUCTED BY ISBH TO CONTACT EPA REGARDING ITS DESIRE TO WITHDRAW ITS RCRA PART A PERMIT APPLICATION.

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0235	09/28/81	NONE LISTED	ACKNOWLEDGEMENT BY EPA THAT GSD FILED A 9/28/81 NOTIFICATION OF HAZARDOUS WASTE ACTIVITY.
0236	09/24/81	NONE LISTED	9/24/81 RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) INSPECTION REPORT ON GSD. INSPECTION REVEALED NO WASTE ANALYSIS PLAN WAS DEVELOPED, NO "DANGER" SIGNS PRESENT, NO RECORDS OF MALFUNCTIONS, DISCHARGES, ETC. EXISTED. GSD WAS LACKING WITH REGARDS TO: INSPECTION SCHEDULE, SAFETY/EMERGENCY EQUIPMENT, SECURITY DEVICES, INSPECTION LOGS, PERSONNEL TRAINING RECORDS AND OTHER AREAS.
0260	11/18/80	NONE LISTED	GSD SIGNED NOTIFICATION OF HAZARDOUS WASTE ACTIVITY AND PROVIDED EPA WITH ADMINISTRATIVE INFORMATION.
0262	09/30/86	PCB, Pb, Ni, Cd, Cu, Zn	INSPECTION REPORT FOR RSL INSPECTION WAS PERFORMED ON 9/30/86 AND MEMO INDICATED THAT RSL HAD BEEN USED AS PERMANENT SLUDGE DISPOSAL AREA FOR GSD WASTEWATER OPERATIONS SINCE 1962. THE REPORT ESTIMATED THE RSL TO BE 12 ACRES IN SIZE. DURING A 3/15/83 STATE INSPECTION, LAGOON WAS OBSERVED TO BE OVERFLOWING AND LEVEES LEAKED TO GRAND CALUMET RIVER. SLUDGE SAMPLES COLLECTED DURING A 1983 ASSESSMENT OF RSL CONTAINED PCBs AND HEAVY METALS (Pb, Ni, Cd, Cu, Zn) ABOVE EPA'S PERMISSIBLE LEVELS.

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0268	03/09/85	PCB, Pb, Ni, Cd, Zn, Cu	SITE INSPECTION REPORT OF RSL PERFORMED BY ECOLOGY AND ENVIRONMENT, INC. (E&E). PCBs, Pb, Ni, Zn, Cu, AND Cd LEVELS WERE HIGH. LAGOON WAS FOUND TO BE UNLINED, SO POTENTIAL FOR GROUND WATER CONTAMINATION EXISTED. BERMS AROUND LAGOON WERE OBSERVED TO BE LEAKING INTO A MARSHY AREA CONNECTED TO GRAND CALUMET RIVER. EPA AND INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) WERE INVOLVED IN LEGAL ACTIONS VS. GSD.
0283	09/30/86	NONE LISTED	CHECKLIST FOR IMMEDIATE REMOVAL ACTION, ALONG WITH PHOTOS AND DIAGRAMS/MAPS REGARDING RSL. PHOTOS OF LAGOON SHOWED AREAS OF EXPOSED SLUDGE WHERE WATER LEVEL WAS LOW. NO IMMEDIATE REMOVAL ACTION DECISION WAS MADE ON THIS DOCUMENT.
0290	08/16/83	NONE LISTED	LETTER, MAPS, AND DIAGRAMS REGARDING THE DEVELOPMENT AND INSTALLATION OF WELLS REQUESTED BY GULF COAST LABS, INC. FOR GROUND WATER SAMPLING.
0302	09/30/86	PCB, Pb, Hg, Cd, As, Cu, Cr	REPORT ON RSL REVEALED SEVERAL PROBLEMS WITH LAGOON: THE LAGOON WAS CLOSE TO OVERFLOWING; LACK OF PROPER SEAL ALLOWED DISCHARGES TO LITTLE CALUMET RIVER; AND TWO LEVEES WERE LEACHING. FIGURES, GRAPHS, TABLES, AND DATA INDICATED LAGOON WAS HAVING NEGATIVE EFFECTS ON GROUND WATER QUALITY. OTHER EVIDENCE THAT LAGOON WAS ADVERSELY AFFECTING GROUND WATER WAS ANALYSIS OF TOTAL ORGANIC CARBONS, TOTAL DISSOLVED SOLIDS, PCB, CHLORIDE, PHOSPHATES, AND HEAVY METALS (As, Cd, Cu, Ag, Cr, Pb, Hg). WELLS WERE OBSERVED AND SLUDGE CONTAINED PCB ABOVE EPA'S PERMISSIBLE LEVELS.

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0330	06/25/85	PCB, Cd, Cu, Pb	PRELIMINARY ASSESSMENT SUMMARY OF RSL INDICATING GROUND WATER CONTAMINATION DUE TO THE LAGOON. MONITORING WELLS THAT WERE INSTALLED IN 7/83 SHOWED UNSPECIFIED "ELEVATED" LEVELS OF AMMONIA, TDS, TOC, AND PCBs. LEACHING WAS OBSERVED ON 3/15/83. ANALYSIS ALSO INDICATED LEVELS OF Cr, Cu, AND Pb BUT NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS. THIS 25 ACRE LAGOON HAS BEEN IN USE SINCE 1964 AND AS OF 6/25/85 WAS FULL.
0335	04/16/91	Pb, Hg, Ni, Cd, As, Cr, Zn, Fe, OIL	EFFLUENT DISCHARGE REPORTS FOR SELECTED FACILITIES IN GARY AREA. INDUSTRIES MONITORED INCLUDED: ENERGY COOPERATIVE, INC. (ECI); LTV STEEL CO., INC. (LTV); GSD; AMOCO OIL CO. (AMOCO); HAMMOND MUNICIPAL SEWAGE TREATMENT PLANT; GARY WASTEWATER TREATMENT PLANT; AND E.I. DUPONT DE NEMOURS & CO. (DUPONT). RESULTS OF EFFLUENT TESTED FOR OIL AND GREASE, TOTAL SOLIDS, GROSS FLOW, NITROGEN, AMMONIA, CHLORIDE, SULFATE, FLOURIDE, Fe, PHENOLICS, TIN, Pb, CYANIDE, Cd, GROSS OXYGEN DEMAND, POTASSIUM, As, Cr, Cu, Hg, BIOCHEMICAL OXYGEN DEMAND AND SELENIUM. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.
0343	12/20/90	PCB, Pb, Hg, Ni, Cd, As, Cu, Cr, Zn	LETTERS AND TEST RESULTS SUBMITTED TO EPA BY GSD. THE SAMPLES WERE TAKEN FROM MONITORING WELLS AND SURFACE WATER IN TOLL ROAD DITCH AND THEN ANALYZED. THE ANALYSIS REVEALED THAT THE WATER IN BOTH CONTAINED PHENOL, BUTYLBENZYLPHTHALATE,

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			DIBUTYLPHTHALATE, DIETHYLPHTHALATE, ACETONE, AMMONIA, Cu, Zn, As, Hg, SELENIUM, THALLIUM, ANTIMONY, BERYLLIUM, Cd, Cr, Pb, Ni, Ag, DIOXIN. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.
0389	11/19/90	NONE LISTED	LETTER AND SAMPLE ANALYSES SUBMITTED TO EPA FROM GSD. SAMPLES WERE TESTED FOR PCB'S AMMONIA-NITROGEN, CHLORINE. LAGOON WELLS AND TRENCH WERE THE LOCATIONS SAMPLED ON 10/10/90. PCB LEVELS WERE BELOW DETECTION LIMITS.
0392	09/05/90	NONE LISTED	LETTER AND SAMPLE ANALYSES SUBMITTED TO EPA BY GSD. SAMPLES WERE TAKEN ON 7/5/90 FROM SIX LAGOON WELLS AND TRENCH, AND MONITORED FOR PCBs, AMMONIA-NITROGEN, AND CHLORINE. PCBs WERE FOUND TO BE BELOW DETECTION LIMITS.
0396	08/08/90	PCB	LETTER FROM EPA TO GSD REGARDING RSL REMEDIATION PROJECT. GSD CHOSE TO PURSUE AN ALTERNATE DISPOSAL METHOD FOR PCB-CONTAMINATED LAGOON SLUDGE BUT DID NOT SUBMIT PROPER/SUFFICIENT INFORMATION TO EXCLUDE INCINERATION/LANDFILLING AS APPROPRIATE METHODS. AN APPENDIX WAS ATTACHED OUTLINING THE INFORMATION NECESSARY FOR EPA TO DECIDE WHICH METHODS OF DISPOSAL GSD MAY PURSUE.
0404	07/02/90	NONE LISTED	LETTER FROM GSD TO EPA WHICH SUMMARIZED THE CHRONOLOGY OF EVENTS AND STATUS OF THE RSL CLOSURE PROJECT. GSD WAS WAITING FOR EPA COMMENTS BEFORE

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			PROCEEDING WITH THE PROJECT. ATTACHED WAS A CURRENT LIST OF SANITARY DISTRICT BOARD MEMBERS AND MEETING SCHEDULE.
0412	05/21/90	PCB	LETTER AND SAMPLE RESULTS FOR AMMONIA, CHLORIDE AND PCB FROM GSD TO EPA. RESULTS WERE FROM 4/10/90, TAKEN FROM MONITORING WELLS AND SURFACE WATER OF TOLL ROAD DITCH. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.
0415	04/11/90	NONE LISTED	LETTER FROM GSD TO EPA THAT INDICATED NO RESPONSE HAD BEEN RECEIVED REGARDING RSL PROJECT. GSD REQUESTED TO KNOW WHEN RESPONSE COULD BE EXPECTED.
0416	03/19/90	NONE LISTED	SUMMARY OF EPA'S COMMENTS AND SUGGESTIONS REGARDING RSL CLOSURE PROJECT. PROPOSED PLANS WERE ACCEPTABLE BUT NEEDED EPA/TOXIC SUBSTANCES CONTROL ACT (TSCA) APPROVAL. INFORMATION INDICATED SOLIDIFICATION OF LAGOON WAS NOT NEEDED. LIQUID PORTION IN LAGOON NEEDED TO BE COMPLETELY REMOVED BEFORE BACKFILLING.
0418	03/05/90	PCB	LETTER AND SAMPLE RESULTS SUBMITTED TO EPA BY GSD FOR SAMPLES TAKEN ON 1/31/90. GSD STILL HAD NOT RECEIVED EPA'S COMMENTS ON RSL CLOSURE PLAN. SAMPLES TAKEN FROM THE MONITORING WELLS WERE ANALYZED FOR PCBs, AMMONIA-NITROGEN, AND CHLORIDES. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.

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0425	02/27/90	NONE LISTED	LETTER FROM GSD'S ATTORNEY REQUESTING MORE TIME TO PREPARE RESPONSE FOR EPA. THE RESPONSE WAS TO BE AN EXPLANATION OF WHY GSD WOULD NOT RESTRICT ADDITIONAL FLOWS IN GSD'S SYSTEM AND THAT THERE WOULD NOT BE ANY INCREASE IN WASTE STREAM FLOWS BY GSD OR ITS OUTSIDE USERS. GSD REQUESTED THIS EXTRA TIME DUE TO ONGOING COURT CASES VS. UNITED STATES OF AMERICA.
0427	01/09/90	PCB	LETTER WHICH SUMMARIZES EPA GROUND WATER SECTION'S COMMENTS ON THE RSL REMEDIATION PROJECT. GROUND WATER SECTION SUGGESTED MEASURING FOR VOLATILE ORGANICS, HEAVY METALS, AND PAH'S IN ADDITION TO PCB AND AMMONIA-NITROGEN. THE LETTER ALSO SUGGESTED ALTERING THE SLUDGE DEWATERING SYSTEM TO REDUCE LEACHATE MIGRATION FROM LAGOON.
0429	01/10/90	PCB	LETTER WITHIN EPA REQUESTING MEMBERS TO RESPOND WITH COMMENTS ON REMEDIAL ALTERNATIVES FOR RSL. RSL WAS CONTAMINATED WITH PCBs AND EPA WANTED ITS STAFF'S VIEWS ON A PROPOSED REMEDIATION PRESENTED BY GSD.
0430	01/05/90	PCB	GSD'S RESPONSE TO EPA'S REQUEST FOR DEVELOPMENT OF SAMPLING PROGRAM. GSD AGREED TO: (1) MONITOR WELLS FOR GROUND WATER CONTAMINATION; (2) TEST SURFACE WATER OF TOLL ROAD DITCH; (3) TEST SOIL OF LAGOON BERM AT DIFFERENT LOCATIONS; AND (4) TEST GRAND CALUMET RIVER SEDIMENTS. PARAMETERS MEASURED ARE TO INCLUDE PCB, AMMONIA, CHLORINE, AND CONDUCTIVITY. GSD REQUESTED COPY OF DESIGN STUDY

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			OF WAUKEGAN HARBOR WHICH HAD SIMILAR PROBLEMS TO RSL AND FOR WHICH AN AGREEABLE SOLUTION WAS ACHIEVED. GSD INSTALLED "NO TRESPASSING" SIGNS ON THE LAGOON FENCE. MAP WHICH SHOWED SAMPLING AREAS AND SOME SAMPLING PROCEDURES WERE ATTACHED.
0442	01/08/90	Cd, Cr, Cu, Fe, Hg, Ni, Zn, PCB	LETTER AND SAMPLE RESULTS SUBMITTED TO EPA BY GSD. ALSO INCLUDED WAS A MAP OF SAMPLING AREAS AND AN OUTLINE OF METHODS USED FOR SAMPLE ANALYSIS. PARAMETERS MEASURED INCLUDED: Cd, Cr, Cu Fe, Hg, Ni, Ag, Zn, AMMONIA-NITROGEN, AND PCBs. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.
0449	09/20/89	NONE LISTED	LETTER FROM GSD TO EPA IN RESPONSE TO EPA'S SUSPICIONS THAT SLUDGE/WATER WAS FLOWING INTO A DITCH THAT LED TO GRAND CALUMET RIVER (GCR). INVESTIGATION REVEALED NO EVIDENCE THAT THE FLOW CAME FROM RSL. GSD OBSERVED INDIANA HIGHWAY DEPARTMENT'S DREDGING EQUIPMENT NEAR INDIANA TOLL ROAD (DITCH). GSD SUGGESTED THAT WATER IN THE DITCH WAS GROUND WATER OR RUNOFF DUE TO ABUNDANT RAINFALL. ATTACHED WAS A MEMO FROM GSD INVESTIGATOR WHO STATED LAGOON WAS NOT OVERFLOWING INTO GCR DURING A 9/15/89 INSPECTION.
0451	08/17/89	NONE LISTED	LETTER FROM EPA TO U.S. DEPARTMENT OF JUSTICE, ALONG WITH LITIGATION REPORT REGARDING EPA'S SUGGESTED CONTEMPT MOTION VS. GSD AND THE CITY OF GARY (GARY). GSD CONTINUED TO VIOLATE PROVISIONS OF 9/8/87 MODIFIED CONSENT DECREE (MCD). THE VIOLATIONS WERE: INADEQUATE SAMPLING AND REPORTING, FAILURE TO OPERATE/MAINTAIN EQUIPMENT,

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			AND FAILURE TO MEET NPDES PERMIT LIMITS AND BYPASSES. GSD PROBLEMS RESULTED FROM MANAGEMENT FAILURES. ON 7/8/88, GSD WAS REQUIRED TO PAY PENALTIES FOR PAST AND CONTINUING VIOLATIONS. IN JUNE OF 1989, EPA EXECUTED TWO CRIMINAL SEARCH WARRANTS TO INVESTIGATE FALSE REPORTING OF CLEAN WATER ACT DISCHARGE REPORTS BY GSD INDIVIDUALS.
0454	UNDATED	PCB, Pb, Hg, Cd, Cu, Cr, Fe, Zn	LITIGATION REPORT ON GSD AND CITY OF GARY. EPA WANTED IMMEDIATE CONTEMPT ACTION VS. THE CITY OF GARY AND ITS DIVISION, GSD, DUE TO MANY VIOLATIONS BEING LONGSTANDING AND CONTINUOUS (INCLUDING FAILURE TO REMEDIATE THE RSL). THE REPORT ESTIMATED THE LAGOON'S SIZE TO BE 25 ACRES. GSD'S SEWAGE SYSTEM HAS BEEN IN CONTINUOUS NON-COMPLIANCE SINCE 9/8/87, WITH REGARDS TO ITS NPDES PERMIT AND TWO CONSENT DECREES. GSD'S SEWAGE SYSTEM CONSISTS OF VARIOUS PARTS, INCLUDING ITS WASTEWATER TREATMENT PLANT, RSL, AND ITS VARIOUS PIPELINES. GSD AND THE CITY OF GARY HAVE BEEN INVOLVED IN EXTENDED LITIGATION WITH THE U.S. DEPARTMENT OF JUSTICE AND EPA FOR VIOLATING PROVISIONS OF THE CLEAN WATER ACT, ITS NPDES PERMIT, AND THE TOXIC SUBSTANCES CONTROL ACT (TSCA). LITIGATION STARTED ON 1/23/78. THE 1978 COMPLAINT STATED THAT GARY AND GSD WERE DISCHARGING UNSPECIFIED POLLUTANTS INTO THE GRAND CALUMET RIVER. THE DISCHARGE'S EFFLUENT LIMITS WERE ABOVE ITS NPDES REQUIREMENTS. ON 6/15/83, A CONSENT JUDGEMENT WAS FILED. LATER, A MOTION TO ENFORCE THE CONSENT JUDGEMENT OCCURRED (IN SEPTEMBER 1984). THE MOTION TO ENFORCE CONSENT JUDGEMENT ALLEGED THAT VIOLATIONS CONTINUED. ON 7/15/86, A COMPLAINT OF TSCA VIOLATIONS WAS FILED VS. GARY AND GSD FOR THE RSL REMEDIATION PROJECT DEFICIENCIES. IN A STIPULATED ORDER OF 6/16/87, GSD WAS TO CEASE USING RSL AS A SLUDGE DISPOSAL

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			<p>AREA. GSD WAS ORDERED TO DEVELOP AN ON-SITE SLUDGE HANDLING SYSTEM 12/1/87 AND SEND ITS DEWATERED SLUDGE TO A LICENSED LANDFILL. A MODIFIED CONSENT DECREE WAS ENTERED ON SEPTEMBER 8, 1987 TO ADDRESS THE CLEAN WATER ACT AND TSCA ISSUES CONCERNING THE RSL. ON 11/30/87, GSD REQUESTED MORE TIME TO CEASE SLUDGE OPERATIONS AT THE RSL BECAUSE IT COULD NOT MEET THE DECEMBER 1, 1987 DEADLINE DUE TO A GEOTECHNICAL PROBLEM AT THE SITE OF ITS SLUDGE DIGESTOR HANDLING SYSTEM (NOT LOCATED ON RSL PROPERTY). GSD ESTIMATED IT WOULD BE IN COMPLIANCE WITH THEIR ON-SITE SLUDGE HANDLING SYSTEM BY 7/18/88. ON 7/5/88, THE U.S. DEPARTMENT OF JUSTICE FILED A MOTION TO COLLECT PENALTIES FOR GSD'S CONTINUAL NON-COMPLIANCE WITH THE 9/8/87 MODIFIED CONSENT DECREE. AS OF 8/17/89, GSD STILL HAD NOT ACHIEVED INTERIM AND FINAL STABILIZATION OF THE RSL, NOR HAD ANY PENALTIES BEEN COLLECTED FROM GARY. INCLUDED IN THE REPORT WERE OTHER VIOLATIONS RELATED TO THE GSD: FAILURE TO MAINTAIN THE PLANT IN ORDER TO MEET EFFLUENT LIMITATIONS AND COMPLIANCE; FALSIFICATION OF PREVIOUS COMPLIANCE REPORTS. 3,110 VIOLATIONS OCCURRED AT GSD (NOT SPECIFICALLY RSL) DURING THE PERIOD FROM 9/87 TO 5/89. ON 1/19/88, A FLOOD CREATED ABOUT 400 VIOLATIONS OF GSD'S EFFLUENT LIMITS. GSD WAS ALSO GUILTY OF BEING UNDERSTAFFED, POORLY MAINTAINING EQUIPMENT, INCORRECTLY REPORTING RECORDS, AND FAILING TO REMEDIATE THE RSL SITE. RSL SLUDGE OPERATIONS FINALLY ENDED ON APRIL 1, 1988 AFTER THE 11/30/87 REQUEST FOR EXTENSION.</p> <p>THE GSD HAS BEEN IN CONTINUOUS NONCOMPLIANCE WITH THE TERMS OF ITS NPDES PERMIT AND THE MODIFIED CONSENT DECREE. FROM SEPTEMBER 1987 THROUGH MAY 1989, GSD WAS IN VIOLATION OF ITS NPDES PERMIT DUE TO ITS EFFLUENT VALUES EXCEEDING THE LIMITATIONS SET FOR: CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND; TOTAL SUSPENDED SOLIDS; AMMONIA-NITROGEN; TOTAL</p>

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			<p>PHOSPHOROUS; OIL AND GREASE; PHENOLS; AND METALS (CADMIUM, CHROMIUM, COPPER, IRON, LEAD, MERCURY, AND ZINC). GSD ALSO FAILED TO REPORT MONITORING RESULTS DURING PERIODS IN 1987 AND 1988. IN FACT, FROM 1987 TO 1989, GSD WAS CITED FOR 3,110 VIOLATIONS WITH AN ADDITIONAL 564 FAILURES TO REPORT. GSD FAILED TO ADEQUATELY STAFF KEY POSITIONS WHICH WERE DISCUSSED IN THE MODIFIED CONSENT DECREE. THE POSITIONS OF DIRECTOR, PLANT SUPERINTENDENT, AND PRETREATMENT COORDINATOR WERE EITHER LEFT UNFILLED OR FILLED WITH UNQUALIFIED PERSONNEL. VIOLATIONS ALSO OCCURRED IN GSD'S OPERATION AND MAINTENANCE PROCEDURES. FLOODS OCCURRED IN JANUARY AND JUNE 1988, CAUSING MAJOR EFFLUENT LIMIT VIOLATIONS. THE MODIFIED CONSENT DECREE ALSO ORDERED GSD TO MAINTAIN A SUFFICIENT AMOUNT OF SPARE PARTS FOR REPAIRING EQUIPMENT AS NEEDED. NUMEROUS VIOLATIONS OF EFFLUENT LIMITS AT GSD OCCURRED DUE TO EQUIPMENT BEING OUT OF SERVICE, YET ANOTHER VIOLATION. IN ADDITION, GSD DID NOT MAINTAIN A SUFFICIENT INVENTORY OF SPARE PARTS AND TOOLS TO PROVIDE FOR MAINTENANCE OF THE WASTEWATER PLANT, AS ORDERED BY THE MODIFIED CONSENT DECREE. AT TIMES, EMPLOYEES EVEN HAD TO PURCHASE THEIR OWN TOOLS IN AN ATTEMPT TO PROPERLY OPERATE THE PLANT. GSD WAS ALSO ORDERED TO REPORT MONITORING RESULTS IN A WAY WHICH WOULD ALLOW FOR DETECTION OF NONCOMPLIANCE. GSD REGULARLY REPORTED ITS RESULTS AS "LESS THAN" A CERTAIN DETECTION LIMIT THAT WAS GREATER THAN THE EFFLUENT LIMIT ITSELF. GSD WAS REQUIRED TO ELIMINATE DRY WEATHER OVERFLOWS AND BYPASSES BY REPAIRING AND MAINTAINING ITS SEWER SYSTEM. IN JUNE 1988 AND MARCH 1989, ILLEGAL BYPASSES OCCURRED DUE TO MALFUNCTIONS OF RAW SEWAGE PUMPS AT THE GSD PLANT. GSD FAILED TO ANNUALLY CERTIFY THAT ITS SEWER SYSTEM WAS IN GOOD WORKING ORDER. NO CERTIFICATIONS, WHICH WERE CALLED FOR IN THE MODIFIED CONSENT DECREE, WERE RECEIVED IN 1988 OR</p>

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			<p>1989. ALSO, GSD HAD FAILED TO IMPLEMENT ANY AND ALL ASPECTS OF A PROPOSED PRETREATMENT PROGRAM IN A TIMELY MANNER. IN FACT, THE PRETREATMENT PROGRAM AT GSD STARTED IN JULY 1988, 31 MONTHS LATE BY GSD'S OWN ADMISSION. FINALLY, THE MODIFIED CONSENT DECREE REQUIRED GSD TO SUBMIT MONTHLY PROGRESS REPORTS PERTAINING TO ALL PROGRAMS AND PROJECTS SPECIFIED IN THE DECREE. FROM THE PERIOD OF OCTOBER 1987 AND JULY 1989, ONE REPORT WAS RECEIVED ON TIME, 14 REPORTS WERE SUBMITTED LATE, AND 7 REPORTS WERE NEVER SUBMITTED. ON TOP OF THAT, GSD HAD CONTINUOUS DEFICIENCIES IN LABORATORY QUALITY. CONSEQUENTLY, REPORTS WHICH WERE SUBMITTED WERE EITHER INSUFFICIENT, INADEQUATE, OR INCOMPLETE.</p>
0528	07/28/89	PCB, Pb, Hg, Cd, Ba, Fe, Ni, As, Cu, Cr, Zn	<p>FINAL REPORT WITH APPENDICES ON RSL REMEDIATION PROJECT COMPLETED FOR GSD BY THREE PURDUE UNIVERSITY PROFESSORS. THE CITY OF GARY ACQUIRED THE RSL IN 1962. PCBs WERE DISCOVERED IN THE LAGOON SEDIMENTS IN 1980, WARRANTING REMEDIATION OF THE LAGOON. THE PLAN OF ACTION WAS TO PERFORM FINAL CLOSURE SO THAT THE LAGOON CONTENTS WOULD BE CONTAINED ON SITE, WITHIN A LOW PERMEABILITY BOUNDARY, TO PREVENT CONTACT WITH GROUND WATER AND SURFACE WATER, AND LEAKAGE OF CONTAMINATED CONTENTS, SLUDGE SAMPLES WERE TESTED AND DID NOT DISPLAY IGNITABILITY, CORROSIVITY, REACTIVITY OR EP TOXICITY; THEREFORE, RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REGULATIONS DID NOT APPLY TO RSL SLUDGE DISPOSAL. INFLUENT AND EFFLUENT PIPES WERE INSTALLED FOR SLUDGE STORAGE PURPOSES. DUE TO PCB CONTAMINATION, THE PIPES REQUIRED SEALING TO ISOLATE THE LAGOON FROM THE GRAND CALUMET RIVER (GCR) AND GARY WASTEWATER TREATMENT PLANT (GWTP). THE LAGOON HAD A SURFACE AREA OF 18.5 ACRES. ABOUT 600,000 CUBIC-YARDS OF SLUDGE HAD BEEN PUMPED TO</p>

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			<p>THE LAGOON. THE AVERAGE PCB CONTENT WAS 220-240 mg/l. SAMPLING WELLS WERE SAMPLED AND THREE SHOWED PCB LEVELS HIGHER THAN DETECTION LIMITS. BARIUM (Ba) WAS ABOVE DETECTION LIMITS AND INCREASED WITH DEPTH. SAMPLING AND ANALYSIS OF RSL WAS PERFORMED THREE TIMES BETWEEN 1983-1989. THE 5/83 PCB LEVELS WERE HIGHEST IN THE CENTER AND WEST REGIONS OF THE LAGOON WHILE LOWER IN THE EAST REGION. Cu AND Pb LEVELS WERE HIGH FOR LOWER DEPTHS SAMPLES. Cd WAS ALSO DETECTED. THE 5/86 DATA BY CANONIE, INC. SHOWED THAT THE CENTER OF THE LAGOON HAD THE HIGHEST LEVELS OF PCBs (730 ppm AS OPPOSED TO VALUES BELOW 100 ppm FOR EAST AND WEST REGIONS). THE 6/89 DATA SHOWED LOWER PCB LEVELS EXISTED IN THE OVERLYING LAGOON WATERS. THE 6/89 SAMPLING WAS LIMITED TO THE OVERLYING LAGOON WATERS IN ORDER TO EVALUATE BOTH ITS CHARACTER AND THE PROSPECTIVE UTILITY OF FILTRATION AS A MEANS OF REMOVING ITS "SUSPECTED" PARTICLE-BOUND PCB CONTAMINATION. HOWEVER, THE "AFTER FILTRATION" SAMPLES WERE VOID OF PCBs. FILTRATION WAS CONSIDERED A POTENTIAL METHOD OF TREATING THE LAGOON WATERS. PCBs WERE FOUND TO HAVE AFFINITY FOR SLUDGE (SOLIDS) RATHER THAN LIQUIDS, THEREFORE, IT WAS UNLIKELY THAT SPREADING WOULD OCCUR. THE AVERAGE PCB CONCENTRATION IN 1983 WAS 224 ppm AND 238 ppm IN 1986, WHICH SUGGESTED PCBs WERE NOT LEAVING THE SITE AT A SIGNIFICANT RATE. NO PROBLEMS WITH METALS WERE APPARENT, EXCEPT FOR Ba. GROUND WATER SAMPLING SHOWED THAT AMMONIA-NITROGEN, TOTAL DISSOLVED SOLIDS (TDS), SPECIFIC GRAVITY (SG), AND CHLORIDES (Cl) INCREASED GOING FROM THE SOUTHEAST PORTION TO THE LAGOON TO THE NORTHWEST PORTION (THE DIRECTION OF GROUND WATER FLOW). MATERIALS WERE MOVING FROM THE LAGOON VIA GROUND WATER TRANSPORT TOWARD THE RIVER. HOWEVER PCBs DID NOT TRAVEL IN THIS MANNER. THERE APPEARED TO BE NO SIZEABLE MOVEMENTS OF METALS AND PCBs. PCBs WERE MAINLY PRESENT IN ONE WELL OVER THE 6-YEAR STUDY.</p>

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			<p>ONLY 8a WAS OBSERVED TO BE IN EXCESS OF DRINKING WATER STANDARDS. STUDIES PROVED THAT FLOW IN GCR IS HIGHLY VARIABLE AND DEPENDENT ON EFFLUENT FLOW RATES FROM UNITED STATES STEEL CORPORATION (STEEL) AND GSD. A STUDY BY U.S. GEOLOGICAL SURVEY SHOWED WATER QUALITY STANDARDS WERE VIOLATED FOR Fe, Pb, PHENOL, AND PHOSPHOROUS. A STUDY BY HYDROQUAL, INC. SHOWED VIOLATIONS FOR DISSOLVED OXYGEN, FECAL COLIFORM, AMMONIA, AND Hg NEAR STEEL OUTFALLS. ONLY FECAL COLIFORM REGULATIONS WERE VIOLATED IN THE VICINITY OF THE RSL. A 1986 STUDY BY CANONIE ENGINEERS, INC. SHOWED CONSISTENTLY LOW PCB LEVELS UPSTREAM, ADJACENT TO, AND DOWNSTREAM FROM RSL. NO EVIDENCE EXISTED INDICATING THAT THE LAGOON IS THE SOURCE OF PCB CONTAMINATION TO GCR VIA GROUND WATER BUT IT IS POSSIBLE THAT FLOODING OF THE LAGOON BY GCR COULD CAUSE PHYSICAL WITHDRAWAL OF PCBs FROM THE LAGOON. PREDOMINANT DIRECTION OF GROUND WATER FLOW WAS FOUND TO BE FROM THE LAGOON TO GCR BUT IT WAS POSSIBLE TO BE OPPOSITE AT TIMES. POLLUTANT CONCENTRATIONS INCREASED FROM SOUTHEAST TO NORTHWEST SUGGESTING SOUTHEAST TO NORTHWEST FLOW DIRECTION. INCLUDED WITH FINAL REPORT WERE INTERIM AND LONG TERM ALTERNATIVES FOR LONG TERM STABILIZATION OF RSL. Ni, As, Cu, Cr, AND Zn WERE ALSO SAMPLED BUT NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF RESULTS.</p>
0792	05/31/89	NONE LISTED	<p>LETTER FROM GSD TO EPA THAT REAFFIRMED GSD'S COMMITMENT TO COMPLETE EPA'S TASKS OF A MODIFIED CONSENT DECREE OF SEPTEMBER 8, 1987. ATTACHED WAS A REPORT WITH PRELIMINARY RECOMMENDATIONS MADE BY CONSULTANTS, AND ANALYTICAL TEST RESULTS FOR SAMPLES TAKEN. GSD ACKNOWLEDGED THE RECOMMENDED ACTIONS AND BEGAN IMPLEMENTATIONS.</p>

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0829	05/12/89	NONE LISTED	LETTER AND LIST OF COMMITMENTS FROM EPA TO GSD. EPA REQUESTED THAT GSD RESPOND IN WRITING TO VERIFY THAT GSD COMMITTED TO EACH TASK ON THE LIST (COMPLETION OF SAMPLING GEOLOGIC STUDY AND STABILIZATION PLANS).
0832	04/03/99	PCB	EPA LETTER AND ENCLOSED CORRESPONDENCE FROM GSD. EPA OFFICIAL REQUESTED COMMENTS FROM FELLOW WORKERS. GSD ENCLOSED A COPY OF CONTRACT IT ENTERED INTO WITH CONSULTANTS FOR THE COMPLETION OF RSL PROJECT. BACKGROUND INFORMATION, LIST OF TASKS TO BE COMPLETED, AND BUDGET FOR RSL PROJECT WAS INCLUDED. RSL HAS BEEN USED FOR SLUDGE DEPOSITION FOR OVER 2 DECADES. PCB CONTAMINATION WAS EVIDENT, BUT THE SOURCE WAS UNKNOWN. ESTIMATED PCB CONTENT OF ENTIRE LAGOON WAS 24,000 LBS BASED ON 50,000 TONS OF SLUDGE. EXCEPT FOR 8/29/86 REPORT, GSD HAS HAD LITTLE CONTACT WITH EPA AND IDEM REGARDING RSL. GSD WAS NEGLIGENT IN ITS SUBMISSION OF AN ACCEPTABLE CONTENT SAMPLING AND GEOTECHNICAL SAMPLING REPORT AS WELL AS THE DEVELOPMENT, REPORTING, AND IMPLEMENTATION OF SUITABLE INTERIM AND LONG-TERM SITE REMEDIATION.
0842	03/03/89	NONE LISTED	MEMO WITHIN EPA FROM OFFICIAL WHO DEMANDED THAT STAFFS MUST TRY HARDER TO FULLY COORDINATE/BETTER ORGANIZE ALL SIGNIFICANT MATTERS PERTAINING TO THE CITIES OF GARY (GARY) AND HAMMOND.

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0843	08/29/88	PCB, As, Ba	IAE, INC. PROPOSAL FOR PCB DISPOSAL AT RSL. IAE PROPOSED A 2 PHASE LONG-TERM STABILIZATION PLAN FOR THE LAGOON. IN PHASE 1, A SLURRY, SOIL BENTONITE WALL WAS TO BE CONSTRUCTED SEPARATING THE LAGOON FROM THE GRAND CALUMET RIVER. ALSO, REGULAR GROUND AND SURFACE WATER MONITORING, WERE PROPOSED. PHASE 2 OF IAE'S PLAN WAS TO BIODEGRADE THE SLUDGE, WHICH WAS ALSO SUGGESTED BY MOTEC, INC. EPA DISAPPROVED OF BIODEGRADATION AS A SUITABLE METHOD FOR HANDLING PCB CONTAMINATED SLUDGE. INCLUDED WAS A PREPARED RESPONSE TO AN EPA LETTER OF 2/8/88. THE RESPONSE CONTAINED K & S TESTING AND ENGINEERING, INC.'S (K&S) REPORT ON SHORT TERM STABILIZATION, MONITORING WELL SURVEYS, AND A PROPOSAL FROM MOTEC, INC. TO BIODEGRADE PCBs. K&S STATED WITHIN THIS PROPOSAL THAT THE FLOW FROM THE RIVER TO THE LAGOON WAS POSSIBLE WHEN THE RIVER WATER LEVEL EXCEEDED THE LAGOON WATER LEVEL. MOTEC, INC. PROVIDED PLANS FOR BIODEGRADATION OF SLUDGE AND ALSO DOCUMENTED ITS PAST EXPERIENCE WITH BIOLOGICAL REMEDIATION, CITING DIFFERENT CLIENTS WHICH MOTEC, INC. SERVICED.
0862	05/05/88	Cu, Zn, Fe	DATA PORTION OF A FIELD INSPECTION TEAM REPORT ON THE NINTH AVENUE DUMP THAT SUMMARIZED FINDINGS OF WATER SAMPLE ANALYSES. ANALYSIS OF SAMPLES FOR TOTAL METALS AND CYANIDES SHOWED THAT LIMITS FOR Cu, Zn, AND Fe WERE EXCEEDED. SAMPLES WERE ALSO TESTED FOR VOLATILE AND SEMI-VOLATILE ORGANICS, AS WELL AS PESTICIDES.

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0928	04/29/88	NONE LISTED	INTEROFFICE MEMO AT EPA REGARDING FEASIBILITY STUDY FOR MIDCO 1, A FORMER INDUSTRIAL WASTE RECYCLING, STORAGE, AND DISPOSAL OPERATION IN GARY, INDIANA. IN 1976, FIRE DESTROYED 14,000 DRUMS WHICH HELPED IN DEGRADING THE AREA'S RESOURCES (GROUND WATER, SURFACE WATER, SOILS). THE FEASIBILITY STUDY AIMED TO REMEDIATE SURROUNDING SURFACE WATER SEDIMENTS AND ELIMINATE CONTAMINATION. SURFACE WATER CONCENTRATIONS OF INORGANICS EXCEEDED WATER QUALITY CRITERIA. THE TREATMENT TECHNIQUE SUGGESTED WAS APPLYING LIME TO PRECIPITATE DISSOLVED METALS.
0930	05/03/88	Cu	LETTER FROM GSD TO IDEM. GSD WAS ISSUED A NPDES PERMIT (NUMBER 0022977) ON 10/7/87. THROUGH RECORDS OF ANALYSIS, GSD'S WASTEWATER TREATMENT PLANT (NOT RSL; HOWEVER RSL IS PART OF THE SAME SEWAGE SYSTEM) WAS FOUND TO BE IN VIOLATION OF ITS NPDES PERMIT FOR CHLORIDES, PHENOLS, AND COPPER. MAJOR CONTRIBUTORS OF CHLORIDES WERE GROUND WATER FLOW AND RESIDENTIAL FLOW. GSD WAS IN VIOLATION OF BOTH INTERIM AND FINAL LIMITS. PHENOL LIMIT WAS ERRONEOUSLY REPORTED, THUS A FAILURE TO MEET A MORE STRINGENT LEVEL OCCURRED. GSD REQUESTED MODIFICATION OF PERMIT LIMITATIONS FOR PHENOLS, COPPER, AND CHLORIDES. COPPER WAS COMING FROM MAJOR INDUSTRIES AND RESIDENTIAL FLOW.
0933	03/29/88	PCB, TCDD, Furn, PAH, OIL	INTEROFFICE MEMO AT EPA REGARDING FEASIBILITY STUDY ON NINTH AVENUE DUMP, AN INACTIVE CHEMICAL AND INDUSTRIAL DISPOSAL AREA IN GARY, INDIANA. CONTAMINANTS FOUND IN SOIL AND SURFACE WATERS WERE PCBs, PAH's, METALS, PESTICIDES, DIOXINS, OIL, AND FURANS. GROUND WATER CONTAINMENT AND REMEDIATION WERE SUGGESTED AS ALTERNATIVES. GROUND WATER FLOW

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			AT NINTH AVENUE DUMP WAS TO THE NORTH, AND INFILTRATES GRAND CALUMET RIVER AND LAKE MICHIGAN.
0935	02/29/88	NONE LISTED	MEMO TO EPA STAFF REGARDING A PHONE CONVERSATION WITH OFFICAL OF GARY REGIONAL AIRPORT (AIRPORT). THE AIRPORT PLANNED TO PURCHASE AVIATION EASEMENTS ON CONSERVATION CHEMICAL CO. (CCC) PROPERTY. THE AIRPORT ALSO WANTED TO PURCHASE LAND FROM HOOSTER STATE TRUST PROPERTY THAT NEIGHORED CCC.
0936	02/02/88	NONE LISTED	MEMO TO EPA STAFF REGARDING CONVERSATION WITH OFFICE OF REGIONAL COUNSEL ABOUT GARY REGIONAL AIRPORT'S PLAN FOR BUYING CONSERVATION CHEMICAL COMPANY'S PROPERTY. EPA USUALLY DOES NOT TAKE OVER A SITE BUT RESTRICTIONS ON LAND SUCH AS CONSERVATION CHEMICAL CO.'S RANGED FROM 20 TO 70 YEARS.
0937	02/01/88	PCB	LETTER REGARDING A 2/2/88 AGREEMENT BETWEEN GSD AND LAND AND LAKES CO. (LDLCO) WHICH ALLOWED GSD TO DISPOSE OF SLUDGE AT LDLCO. CONDITIONS WERE SET PERTAINING TO DISPOSAL METHODS, COSTS, AND REQUIREMENTS. LDLCO WANTED PCB CONCENTRATIONS IN RSL'S SUPERNATANT TO BE BELOW 25 ppm AND GSD ACKNOWLEDGED THIS.
0939	12/19/87	NONE LISTED	MEMO REGARDING A MEETING BETWEEN EPA, GSD, U.S. ATTORNEY'S OFFICE, AND CONSULTANTS TO DISCUSS GSD'S PETITION FOR MODIFICATION AND DEADLINE FOR CLOSING THE RSL. GSD COULD NOT PROPOSE A SCHEDULE

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			FOR CLOSING RSL. EPA INFORMED GSD THAT VIOLATIONS EXISTED FOR PHENOL LIMITS. GSD ATTRIBUTED HIGH PHENOLS TO UNITED STATES STEEL CORPORATION WASTEWATER. A DISCUSSION ABOUT THE GSD WASTEWATER TREATMENT PLANT DIGESTER SYSTEM (ANOTHER PART OF GSD SYSTEM) IS ALSO STATED. A DIGESTION SYSTEM FOR THE PCB-CONTAMINATED SLUDGE WENT INTO OPERATION ON 12/1/87. IN THIS SYSTEM, SLUDGE WAS ROUTED TO VARIOUS DIGESTERS RATHER THAN TO THE LAGOON.
0942	12/08/87	PCB	LETTER FROM EPA TO LAND AND LAKES COMPANY (LDLCKO) REGARDING CONCERNS ASSOCIATED WITH GSD DISPOSAL OF SLUDGE AT LDLCKO. LAB RESULTS OBTAINED BY GSD INDICATED NO DETECTABLE TRACES OF PCB. LDLCKO WAS CONCERNED THAT ACCEPTING SLUDGE FROM GSD MIGHT IMPACT THEIR "NON-HAZARDOUS" STATUS.
0944	11/13/87	NONE LISTED	LETTER FROM CONSULTANTS, HAVENS AND EMERSON, INC. (HEI) TO EPA REGARDING GSD SLUDGE DISPOSAL PROJECT. HEI RESPONDED TO EPA'S INQUIRY OF THE DIGESTERS IN USE AS WELL AS THE WHOLE DIGESTION PROCESS. EPA WAS CONCERNED ABOUT SINKHOLES NEAR ONE DIGESTER WHERE SAND WAS ENTERING A BROKEN PIPE AND SETTLING. THE PIPE WAS REPAIRED. DISCHARGES TO RSL WERE PROJECTED TO GREATLY INCREASE AFTER 12/1/87. HEI INDICATED THAT AS THE BIOLOGICAL DIGESTION PROCESS BECOMES ESTABLISHED THE COMPLETE ABANDONMENT OF THE RSL WOULD OCCUR SOON AFTER.
0948	09/22/87	NONE LISTED	SITE SPILL IDENTIFIER DISTRIBUTION REPORT (WHICH INCLUDES GARY).

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0979	07/17/87	PCB	EPA's REVIEW OF GSD'S PROPOSAL FOR THE RSL. PROPOSED CONSTRUCTION OF SLURRY WALL WAS UNACCEPTABLE FOR LONG-TERM CONTAINMENT OF PCB-CONTAMINATED MATERIAL. EPA SUGGESTED BUILDING A VAULT OR LANDFILL SOLELY FOR THIS MATERIAL; AN ALTERNATIVE TO INCINERATION OR LANDFILLING WOULD POSSIBLY BE "VAPORIZATION" OF PCBs FROM SUBSTRATES AND CONTAINMENT OF VOLATILIZED PCBs.
0982	06/17/87	NONE LISTED	EVALUATION FORM AND COMPLIANCE SAMPLING INSPECTION REPORT FOR GSD'S WASTEWATER TREATMENT PLANT. GSD SUBMITTED A REQUEST ON 4/15/87 TO MODIFY THE CONSENT JUDGEMENT SCHEDULE FOR CEASING THE USE OF THE RSL FOR SLUDGE DISPOSAL. AN INSPECTION ON 5/12/87 SHOWED GSD TO BE IN POOR STANDING WITH REGARDS TO SELF-MONITORING PROGRAMS. EFFLUENT OF GSD HAD HIGH LEVELS OF PHENOLS AND CYANIDES. LAST YEAR, UNITED STATES STEEL CORPORATION HAD A PHENOL-TYPE DISCHARGE WHICH SEVERELY AFFECTED BIOLOGICAL ACTIVITY.
1011	UNDATED	NONE LISTED	A MODIFIED CONSENT DECREE ENTERED BY THE U.S. DISTRICT COURT FOR THE NORTHERN DISTRICT OF INDIANA, HAMMOND DIVISION. THIS MODIFIED CONSENT DECREE WAS ACTIVATED BY A CIVIL ACTION SUIT (H 78-29) BROUGHT AGAINST THE CITY OF GARY AND THE GARY SANITATION DISTRICT (GSD) BY THE UNITED STATES OF AMERICA AND THE INDIANA STREAM POLLUTION CONTROL BOARD. THIS MODIFIED CONSENT DECREE "SUPERSEDES THE CONSENT JUDGEMENT PREVIOUSLY FILED, BUT INCORPORATES BY REFERENCE ALL OF THE DEFENDANTS PRIOR OBLIGATIONS FOR COMPLIANCES INCLUDING, BUT NOT LIMITED TO, SECTIONS II, III, IV, V, VI, VIIb, X, XI, AND XIV UNLESS DIRECTED

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			<p>OTHERWISE IN THIS MODIFIED COURT DECREE... THE OBJECTIVES OF THIS CONSENT DECREE ARE COMPLIANCE WITH THE FINAL EFFLUENT LIMITS AS SPECIFIED IN THE JUNE 15, 1983 CONSENT DECREE WITH THE CLEAN WATER ACT AND THE..." NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM "...NPDES PERMIT INCLUDING THE ELIMINATION OF DISCHARGE OF POLLUTANTS FROM THE GARY SANITARY DISTRICT WASTEWATER TREATMENT SYSTEM THAT VIOLATE THE CLEAN WATER ACT, OR THE FINAL EFFLUENT LIMITS; THE DEVELOPMENT AND IMPLEMENTATION OF MANAGEMENT PRACTICES THAT WILL RESULT IN EFFECTIVE MANAGEMENT AND OPERATION OF THE COMPLETE WASTEWATER TREATMENT SYSTEM; THE ESTABLISHMENT AND IMPLEMENTATION OF MEASURES TO ENSURE THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AT THE WASTEWATER TREATMENT SYSTEM; THE IMPLEMENTATION ON A CONTINUED BASIS OF PRIORITY PREVENTIVE AND CORRECTIVE ACTIONS TO ENSURE THAT ALL EQUIPMENT THAT IS IN NEED OF REPAIR RECEIVES THAT REPAIR; THE ESTABLISHMENT AND IMPLEMENTATION OF MEASURES TO ENSURE THE PROPER STAFFING OF THE COMPLETE WASTEWATER TREATMENT SYSTEM; THE ESTABLISHMENT AND IMPLEMENTATION OF PROCEDURES TO ENSURE THE PROPER TRAINING OF ALL STAFF AT THE SANITARY DISTRICT; THE CESSATION OF ALL DRY WEATHER OVERFLOWS AND BYPASSES OF THE WASTEWATER TREATMENT PLANT; FINAL COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT, 15 U.S.C. 2601 ET SEQ. AND THE REGULATIONS PROMULGATED THEREUNDER AT 40 C.F.R. PART 761, INCLUDING, BUT NOT LIMITED TO, THE CLOSING OF THE RALSTON STREET LAGOON IN AN ENVIRONMENTALLY SOUND MANNER INCLUDING THE DISPOSAL OR STABILIZATION OF ALL SLUDGE IN THE LAGOON TO PREVENT THE MIGRATION OF POLLUTANTS OR CONTAMINATION TO SURROUNDING WATERS; AND THE IMPLEMENTATION AND CONTINUED OPERATION OF A LONG-TERM SLUDGE HANDLING AND DISPOSAL PROGRAM." THIS MODIFIED CONSENT DECREE ALSO STATES THAT THE DEFENDANTS MUST UNDERTAKE CERTAIN REMEDIAL</p>

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MEASURES BASED ON THE SCHEDULE OF COMPLIANCE
DEFINED. THESE REMEDIAL MEASURES INCLUDE THE
FOLLOWING: 1) THE DEFENDANTS HIRE A NEW DIRECTOR
FOR GSD AND A NEW SUPERINTENDENT FOR GSD'S
WASTEWATER TREATMENT PLANT; 2) THE DEFENDANTS MUST
HIRE A NEW MECHANICAL ENGINEER FOR THE WASTEWATER
TREATMENT PLANT; 3) THE DEFENDANTS MUST HIRE AN
EXPERIENCED INSTRUMENT CHEMIST WITH A COLLEGE OR
UNIVERSITY DEGREE IN ANALYTICAL CHEMISTRY; 4) THE
DEFENDANTS MUST ESTABLISH AND IMPLEMENT A
MANAGEMENT TRAINING PROGRAM FOR ALL SUPERVISORY
PERSONNEL TO ENSURE DIRECTING THE OPERATION OF THE
COMPLETE WASTEWATER TREATMENT SYSTEM IN A MANNER
CONSISTENT WITH THE REQUIREMENTS OF THE CLEAN
WATER ACT AND THE FINAL EFFLUENT LIMITS AND THE
NPDES PERMIT. 5a) THE DEFENDANTS SHALL ESTABLISH
A STAFFING PROGRAM AND AN ORGANIZATIONAL STRUCTURE
AT THE GSD TO ENSURE THE EFFECTIVE OPERATION OF
THE COMPLETE WASTEWATER SYSTEM CONSISTENT WITH THE
REQUIREMENTS OF THE CLEAN WATER ACT, THE FINAL
EFFLUENT LIMITS AND THE NPDES PERMIT; 5b) THE
DEFENDANTS SHALL CONTINUE TO HIRE QUALIFIED
PERSONS WHENEVER VACANCIES ARISE, WITH PARTICULAR
EMPHASIS ON THOSE KEY MANAGEMENT POSITIONS AT THE
GARY SANITARY DISTRICT IN THIS MODIFIED CONSENT
DECREE; 6) DEFENDANT SHALL UNDERTAKE THOSE ACTIONS
THAT ARE NECESSARY TO OPERATE AND MAINTAIN THE
COMPLETE WASTEWATER TREATMENT SYSTEM IN COMPLIANCE
ON A CONTINUOUS BASIS WITH THE FINAL EFFLUENT
LIMITATIONS; THE FOLLOWING MAINTENANCE PROGRAM
WILL BE IMPLEMENTED: 7a) DEFENDANTS SHALL
IMPLEMENT AN INTERIM MAINTENANCE PROGRAM SUCH THAT
ALL EQUIPMENT IS LUBRICATED, CHECKED, PAINTED, OR
REPAIRED AS NEEDED TO ENSURE LONG TERM OPERABILITY
OF ALL EQUIPMENT; 7b) THE DEFENDANTS SHALL BEGIN
BASIC TRAINING SESSIONS ON MAINTENANCE PROCEDURES,
AND EQUIPMENT OPERATION PRACTICES FOR ALL PLANT
OPERATORS AND OTHER APPROPRIATE PLANT OPERATORS
AND PLANT EMPLOYEES; 7c) A COMPREHENSIVE

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			<p>MAINTENANCE PROGRAM FOR ALL PLANT EQUIPMENT SHALL BE SUBMITTED TO EPA AND THE INDIANA STREAM POLLUTION CONTROL BOARD FOR REVIEW AND APPROVAL; 7d) THE MAINTENANCE PLAN DESCRIBED IN 7c ABOVE SHALL BE FULLY IMPLEMENTED BY THE DEFENDANTS AND CONTINUOUSLY MAINTAINED THEREAFTER; 8) DEFENDANTS SHALL IMPLEMENT PREVENTIVE AND CORRECTIVE MAINTENANCE TASKS FOR AND ON 8a) THE RECTANGULAR PRIMARY CLARIFIER; 8b) SCUM INCINERATOR EQUIPMENT; 8c) INFLUENT PUMPING EQUIPMENT; 8d) BLOWER BUILDING SUMP PUMP; 8e) THE SCREW PUMP OPERATION; 8f) THE WEST BUILDING RETURN SLUDGE PUMPS; 8g) THE EAST BUILDING RETURN SLUDGE PUMP; 8h) THE CHLORINE EQUIPMENT AND THE CHLORINE CONTACT CHANGERS; 8i) ALSO INSTALL GAS ALARMS OUTSIDE CHLORINE BUILDING AND HIGH WATER ALARM IN BASEMENTS OF ALL BUILDINGS WITH POWER PANELS IN THE BASEMENT; 8j) SYSTEMATIC PAINTING OF ALL PIPING AND EQUIPMENT AND 8k) PLACE FENCING AROUND RSL TO PREVENT PUBLIC ACCESS; 9) THE DEFENDANTS SHALL MAINTAIN A SUFFICIENT VARIETY AND AMOUNT OF SPARE PARTS TO ENABLE THE REPAIR OR REPLACEMENT OF EQUIPMENT IN A MINIMUM AMOUNT OF TIME AND TO ENSURE THE OPERATION OF THE COMPLETE WASTEWATER TREATMENT SYSTEM; THE DEFENDANTS SHALL ALSO DEVELOP A SPARE PARTS LIST CONTAINING 9a) A CRITICAL PARTS LIST; 9b) ALL ROUTINELY REQUIRED SPARE PARTS ORDERED; 9c) PARTS INVENTORY AND MAINTENANCE TRACKING IMPLEMENTED; 9d) A LIST OF ROUTINE PARTS AND CRITICAL PARTS; 10) DEFENDANTS SHALL PROVIDE AND THEREAFTER MAINTAIN A MAINTENANCE FACILITY AND TOOL SHED THAT a) IS SUFFICIENT IN SIZE AND DESIGN TO ENSURE THAT ALL MAINTENANCE FUNCTIONS CAN BE DONE SAFELY AND EFFICIENTLY AND THAT IT HAVE A SECURED AND ORDERLY TOOL STORAGE SYSTEM WHICH MAKES AVAILABLE BASIC MACHINE TOOLING; 11) THE DEFENDANTS SHALL MAINTAIN AN INTERIM QUALITY ASSURANCE (QA) AND/OR QUALITY CONTROL (QC) PROGRAM; 12) THE DEFENDANTS SHALL DEVELOP AND IMPLANT A SYSTEMATIC QA AND/OR QC</p>

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			PROGRAM FOR THE PLANT LABORATORY; 13) THE DEFENDANT SHALL IMPLEMENT SAMPLING PROCEDURES THAT CONFORM TO ALL NPDES PERMIT REQUIREMENTS AND AT 40 CFR PART 136; 14) DEFENDANTS SHALL REPAIR AND MAINTAIN THE SEWER REGULATION SYSTEM SO THAT DRY WEATHER OVERFLOWS AND BYPASSES ARE ELIMINATED AND 15) DEFENDANTS SHALL ANNUALLY CERTIFY DURING THE PENDACY OF THIS DECREE THAT THE SEWER SYSTEM IS IN GOOD REPAIR, HAS ADEQUATE CAPACITY, AND IS BEING MAINTAINED TO PREVENT BYPASSING AND WILL REPORT ON A BYPASS THAT OCCURS TO EPA AND THE INDIANA STREAM POLLUTION CONTROL BOARD IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES PERMIT.
1024	06/02/87	As, Ba, Cd, Cr, Pb, Hg, Cu, Ni, Zn	LETTER FROM GSD TO EPA WITH ENCLOSED CORRESPONDENCE RELATING TO SEVERAL ATTEMPTS TO ACQUIRE LANDFILL PERMIT FOR SLUDGE DISPOSAL. HEAVY METALS WERE MONITORED (As, Ba, Cd, Cr, Pb, Hg, Cu, Ni, Zn). ANALYSIS OF GSD SLUDGE SHOWED NO RECOGNIZABLE PCBs. GSD WAS REJECTED AND DENIED BY WHEELER AND C.I.D. LANDFILLS AND ALSO BY HAMMOND SANITARY DISTRICT. ATTACHED WERE LETTERS OF REJECTION AS WELL AS SLUDGE ANALYSIS AND WASTE PROFILES OF GSD'S SLUDGE. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF RESULTS.
1036	05/15/87	PCB	LETTER FROM GSD TO CID PROCESSING CENTER REQUESTING RESPONSES AND CLARIFICATION AS TO WHY GSD WAS DENIED A PERMIT TO USE CID LANDFILL. THE ENSUING RESPONSES FROM CID WERE ATTACHED: CID-11 LANDFILL REJECTED THE SLUDGE AND ALSO "WASTEWATER TREATMENT SLUDGE" AT WHEELER LANDFILL; CID DENIED GSD PERMIT BECAUSE MATERIAL MAY CONTAIN LEVELS OF

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			TSCA REGULATED MATERIALS (PCBs).
1038	05/04/87	NONE LISTED	UPDATED LIST OF COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) SITE ASSIGNMENTS, INCLUDING THE RSL AND OTHER REMOVAL SITES.
1062	08/29/86	PCB, Ba	TRANSMITTAL LETTER AND SAMPLING REPORT (GEOLOGIC AND CONTENT) OF RSL SUBMITTED TO EPA BY INDO-AMERICAN ENGINEERS, INC. (IAE). PRELIMINARY REPORT INDICATED THAT SITE GROUND WATER ORIGINATES FROM DIRECT INFILTRATION DUE TO RAINFALL, DISCHARGE OF SEWAGE TO THE LAGOON, AND THE GRAND CALUMET RIVER (GCR). DESCRIPTION OF SOIL, BEDROCK, AND HYDROGEOLOGY WERE PROVIDED. STABILITY PROBLEMS EXISTED DUE TO THICK VEGETATION AREA BETWEEN GCR AND RSL. ONLY BARIUM (Ba) LEVELS IN THE WATER WERE HIGHER THAN THE ALLOWED MAXIMUM CONTAMINANT LEVELS. ATTACHED DATA AND RESULTS INDICATED THE ABOVE MENTIONED CONTAMINATION (PCBs, Ba). PERTINENT TABLES, FIGURES, AND APPENDICES CONTAINING SOIL BORING LOGS, PHYSICAL LAB TEST RESULTS, AND OBSERVATION WELL CONSTRUCTION DETAILS WERE INCLUDED.
1123	12/31/85	PCB	MEMO, DATASHEET, AND LITIGATION REPORT REGARDING VIOLATIONS OF THE TOXIC SUBSTANCE CONTROL ACT (TSCA) BY CITY OF GARY (GARY) AND GSD. EPA REFERRED CIVIL ACTION VS. GSD AND GARY FOR THE RSL SLUDGE HAVING PCB CONCENTRATIONS EXCEEDING 50 ppm. ON 5/4/83, ANALYSIS OF THE SLUDGE SHOWED PCB LEVELS AT FIVE OF SIX SAMPLING SITES TO BE GREATER

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			THAN 50 ppm, WITH VALUES EXCEEDING 500 ppm AT TWO SITES. GARY AND GSD RECEIVED APPROVAL FROM EPA AND THE STATE OF INDIANA FOR A CONSTRUCTION GRANT TO BUILD A SLUDGE DEWATERING FACILITY ON SITE IN ATTEMPTS TO MEET REQUIREMENTS OF 40 CFR 761 AND THE CLEAN WATER ACT. THE ACTUAL COMPLAINT, AS WELL AS MAPS, LAB RESULTS, AND FIGURES ARE INCLUDED.
1160	UNDATED	PCB	FEASIBILITY STUDY FOR THE DISPOSAL OF PCBs FOUND IN THE RSL SLUDGE. TESTING OF THE SLUDGE INDICATED THE AVERAGE PCB LEVELS WERE 220 mg/kg, EQUALING A TOTAL OF TEN TONS OF PCBs IN THE LAGOON. BASED ON GROUND WATER DATA, THE QUALITY OF THE GROUND WATER WAS NOT ADVERSELY AFFECTED BY PCBs IN THE LAGOON SLUDGE. ATTACHED TO THE STUDY IS A SUMMARY OF THE MOST COST EFFECTIVE DISPOSAL ALTERNATIVE (ON-SITE CONTAINMENT AND ENCAPSULATION). THE FACILITIES WERE EXPECTED TO BE ON LINE IN 1989, WITH THE CONTAINMENT COMPLETED BY 1988.
1164	UNDATED	NONE LISTED	LETTER PRECEDING A 5/12/87 SAMPLING INSPECTION REPORT OF GSD'S SEWAGE SYSTEM DONE BY EPA. FINDINGS INDICATED NON-COMPLIANCE EXISTED FOR A SCUM INCINERATOR (NOT OPERATING), SAMPLERS (EQUIPMENT WAS NOT MAINTAINED PROPERLY), SAND FILTERS (NOT OPERATING), MONITORING FLOW CHARTS (OUT OF STOCK), CONSTRUCTION SCHEDULE, AT OTHER PARTS OF GSD SYSTEM AND PHENOL LEVELS AT GARY WASTEWATER TREATMENT PLANT AND RSL (FOUND TO BE IN EXCESS OF PERMIT LEVEL).

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1167	11/08/85	PCB	LETTER FROM INDIANA STATE BOARD OF HEALTH (ISBH) TO GSD REGARDING RSL SAMPLING PROPOSAL. SYNOPSIS OF PAST STUDIES REVEALED THE LAGOON SLUDGE TO BE HEAVILY CONTAMINATED WITH PCBs. GROUND WATER WELLS HAD HIGH LEVELS OF AMMONIA-NITROGEN, TOTAL ORGANIC CARBON (TOC), TOTAL DISSOLVED SOLIDS (TDS), AND TOTAL ORGANIC HALOGEN (TOX), AS WELL AS PCBs, CHLORIDES, AND PHOSPHATES. GSD'S PROPOSAL WAS INSUFFICIENT IN DETAIL AND FELL SHORT IN THE SCOPE OF WORK TO BE DONE. ISBH MADE REQUESTS FOR IMPROVING THE PROPOSAL.
1172	03/22/85	PCB	LETTER AND DATA REGARDING PCBs IN RSL'S SUPERNATANT. THE RESULTS SHOWED CONCENTRATION OF PCBs IN WATER SAMPLE OF 1/21/85 TO BE LESS THAN 0.005 ppm.
1174	07/29/85	NONE LISTED	LETTERS AND COST ANALYSIS REGARDING AN ALTERNATE DESIGN FOR RSL. LAB RESULTS OF 5/83 SHOWED AVERAGE PERCENTAGE OF SOLIDS IN RSL TO BE 7.2%. BY INCREASING SOLIDS TO 25-30%, THE LAGOON COULD BE USED FOR 20 ADDITIONAL YEARS. INDO-AMERICAN ENGINEERS (IAE) RECOMMENDED CONSTRUCTION OF SOIL-BETONITE CUT-OFF WALL, SLUDGE STABILIZATION, AND PLACEMENT OF A CLAY CAP UPON CLOSURE.
1177	04/24/85	NONE LISTED	LETTER AND SECOND REPORT REGARDING MONITORING WELLS AROUND THE RSL. SAMPLES WERE FROM FEBRUARY 1985, AND OCTOBER 1984. PARAMETERS MEASURED FOR INCLUDED; AMMONIA-NITROGEN, pH, CONDUCTIVITY, PHOSPHOROUS, AND CHLORIDES.

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1183	12/27/84	PCB	NOTES PERTAINING TO RSL. ON 8/10/83, PCBs IN WELLS WERE LESS THAN 0.10 ppb. A 50-FOOT SLURRY WALL WAS PROPOSED FOR PURPOSES OF CONTAINMENT.
1184	UNDATED	PCB	FEASIBILITY STUDY ON RSL COMPLETE WITH A SUMMARY, A LIST OF CRITERIA FOR ALTERNATE DISPOSAL METHODS, SAMPLING AND SITE LOCATION MAPS, COST SCHEMES, AND APPENDICES WHICH INCLUDED BORING LOGS AND ANALYSES OF GROUND WATER MONITORING WELLS. RSL HAD PCB LEVELS AVERAGING 220 ppm IN THE SLUDGE. NO APPARENT GROUND WATER CONTAMINATION WAS DETECTED BUT GSD MADE ARRANGEMENTS TO SAMPLE MONITORING WELLS FOR PCBs. THE STUDY REVEALED THE MOST COST EFFECTIVE METHOD FOR DISPOSAL TO BE ON-SITE CONTAINMENT/ENCAPSULATION. INFLUENT AND EFFLUENT WATER HAD BEEN TESTED FOR PCBs, BUT NO PCBs WERE DETECTED, INDICATING THAT PCBs LEVELS IN THE LAGOON WERE NOT INCREASING.
1226	07/12/84	PCB	LETTERS FROM GSD TO INDIANA STATE BOARD OF HEALTH (ISBH) WHICH STATED GSD DOES NOT FEEL THAT A HEARING (ENFORCEMENT) IS NECESSARY WITH REGARDS TO PCB LIMIT VIOLATIONS AT THE RSL. GSD REQUESTED INFORMATION TO HELP IT DETERMINE METHOD FOR CORRECTING ANY GROUND WATER POLLUTION POTENTIALLY LEACHING OUT OF THE LAGOON. A LETTER FROM ISBH THAT INFORMED GSD OF RECOMMENDED ENFORCEMENT HEARING CONCERNING PCBs VIOLATIONS WAS ATTACHED.
1228	04/04/84	PCB, Cd	INDIANA STATE BOARD OF HEALTH MEMO AND REPORT REGARDING RSL AND GSD. THE MEMO STATED THAT DUE TO HIGH LEVELS OF PCBs IN THE RSL SLUDGE, DISPOSAL

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			<p>WOULD BE QUITE INVOLVED. POLYTECH INC. PLANNED TO MEET WITH GSD TO INFORM IT OF PROBLEMS ASSOCIATED WITH THE CLEANUP PROJECT. THE REPORT INCLUDED: A BRIEF HISTORY OF RSL; MONITORING WELL RESULTS AND TABLES; LAGOON RESULTS; DATA; TABLES; CONCLUSIONS; MAPS; AND FIGURES PERTAINING TO RSL AND THE SLUDGE PROBLEMS. INSPECTIONS LED TO THE DISCOVERY THAT RAW SLUDGE IS DISCHARGED DAILY FROM GARY WASTEWATER TREATMENT PLANT TO RSL. THE LAGOON WAS AT THE OVERFLOW POINT ON 3/15/83 WHILE THE OVERFLOW STRUCTURE WAS INADEQUATE. THIS ALLOWED DISCHARGE INTO THE LITTLE CALUMET RIVER. THE LAGOON LEVEES WERE OBSERVED TO BE LEACHING. MONITORING WELL RESULTS INDICATED AMMONIA LEVELS WERE VERY LOW IN UPGRADIENT WELLS AND VERY HIGH IN DOWNGRADIENT WELLS, WHICH INDICATED NEGATIVE EFFECTS OF THE LAGOON ON GROUND WATER QUALITY. TOTAL ORGANIC CARBON (TOC) WAS HIGHER IN DOWNGRADIENT WELLS INDICATING THAT THE LAGOON LEACHATE WAS AFFECTING THE GROUND WATER. PCB CONCENTRATIONS IN ONE WELL WERE ABOVE THE 0.1 ppb DETECTION LIMIT AND ELEVATED CONCENTRATIONS WERE OBSERVED FOR TOTAL ORGANIC HALOGENS. CADMIUM (Cd) WAS FOUND TO BE ABOVE MAXIMUM CONTAMINANT LEVEL IN 3 OF 6 WELLS. THE LAGOON RESULTS SHOWED THAT SIXTEEN OF THIRTY SAMPLES CONTAINED PCBs IN EXCESS OF 50 mg/kg, MAKING RSL A TOXIC WASTE SITE AND SUBJECTING IT TO TOXIC SUBSTANCES CONTROL ACT (TSCA).</p>
1258	01/04/82	TOXAP, As, Ba, Cd, Cu, Pb, Hg, Ni, Zn, PCB, OIL	<p>A LETTER OF CONFIRMATION AND LAB RESULTS/ANALYSIS OF RSL RAW SLUDGE SAMPLES. THE RESULTS INDICATED THAT THE SLUDGE WAS NOW BELOW THE REQUIRED LIMITS FOR EPA PRIORITY POLLUTANTS (INCLUDING PCBs, METALS, ORGANICS, TOXAPHENE, As, Ba, Cd, CYANIDE, Cu, Pb, Hg, Ni, Zn, OIL AND GREASE). NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF</p>

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			THE RESULTS.
1274	10/25/83	As, Ba, Cd, Cr, Pb, Hg, PCB	LAB RESULTS FOR SAMPLES TAKEN ON 9/20/83 FROM RSL. PARAMETERS MEASURED WERE: ARSENIC, BARIUM, CADMIUM, CHLORIDE, CHROMIUM, LEAD, MERCURY, PCBs, pH, NITROGEN (AMMONIA, NITRATES, NITRITES) PHENOLS, POTASSIUM, SELENIUM, SILVER, PHOSPHATES, TOTAL ORGANIC CARBONS, AND TOTAL DISSOLVED SOLIDS. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.
1286	08/18/83	NONE LISTED	DIAGRAM/SKETCH OF RSL AT LITTLE CALUMET RIVER. SOIL BORINGS WERE SHOWN IN APPROXIMATE LOCATIONS.
1288	09/16/83	PCB, As, Ba, Cd, Cr, Pb, Hg	SAMPLE RESULTS/ANALYSIS OF SLUDGE SAMPLES TAKEN ON 8/10/83 AT RSL. AMONG THE PARAMETERS MEASURED WERE As, Ba, Cd, Cr, Pb, Hg, ORGANICS, AND PCBs. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.
1300	05/24/83	PCB, Pb, Ni, Cd, Cu, Zn	LETTER, MAP, AND SAMPLE ANALYSES REGARDING SAMPLES OF SIX LOCATIONS AT RSL. SAMPLES WERE TAKEN AT DIFFERENT DEPTHS. PCBs WERE ABOVE MAXIMUM CONTAMINANT LEVELS FOR OVER ONE-HALF OF THE SAMPLES TESTED. FOR FEW SAMPLES, CADMIUM WAS ABOVE THE MAXIMUM CONTAMINANT LEVEL. OTHER METALS WERE MONITORED (Pb, Ni, Cu, Zn).

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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
1331	UNDATED	PCB, As, Ba, Cd, Pb, Hg	RESULTS OF GROUND WATER ANALYSIS FOR SIX MONITORING WELLS OF RSL. WELL NUMBER SIX (6) SHOWED PCB LEVELS ABOVE THE DETECTION LIMITS. SAMPLES WERE TAKEN ON 8/10/83, 9/20/83, AND 7/16/84. OTHER CRITICAL CONSTITUENTS SAMPLED INCLUDED As, Ba, Cd, Pb, AND Hg. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.

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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
0335	04/16/91	Pb, Hg, Ni, Cd, As, Cr, Zn, Fe, OIL	EFFLUENT DISCHARGE REPORTS FOR SELECTED FACILITIES IN GARY AREA. INDUSTRIES MONITORED INCLUDED: ENERGY COOPERATIVE, INC. (ECI); LTV STEEL CO., INC. (LTV); GSD; AMOCO OIL CO. (AMOCO); HAMMOND MUNICIPAL SEWAGE TREATMENT PLANT; GARY WASTEWATER TREATMENT PLANT; AND E.I. DUPONT DE NEMOURS & CO. (DUPONT). RESULTS OF EFFLUENT TESTED FOR OIL AND GREASE, TOTAL SOLIDS, GROSS FLOW, NITROGEN, AMMONIA, CHLORIDE, SULFATE, FLUORIDE, Fe, PHENOLICS, TIN, Pb, CYANIDE, Cd, GROSS OXYGEN DEMAND, POTASSIUM, As, Cr, Cu, Hg, BIOCHEMICAL OXYGEN DEMAND AND SELENIUM. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.

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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
0935	02/29/88	NONE LISTED	MEMO TO EPA STAFF REGARDING A PHONE CONVERSATION WITH OFFICAL OF GARY REGIONAL AIRPORT (AIRPORT). THE AIRPORT PLANNED TO PURCHASE AVIATION EASEMENTS ON CONSERVATION CHEMICAL CO. (CCC) PROPERTY. THE AIRPORT ALSO WANTED TO PURCHASE LAND FROM HOOSIER STATE TRUST PROPERTY THAT NEIGHBORED CCC.
0936	02/02/88	NONE LISTED	MEMO TO EPA STAFF REGARDING CONVERSATION WITH OFFICE OF REGIONAL COUNSEL ABOUT GARY REGIONAL AIRPORT'S PLAN FOR BUYING CONSERVATION CHEMICAL COMPANY'S PROPERTY. EPA USUALLY DOES NOT TAKE OVER A SITE BUT RESTRICTIONS ON LAND SUCH AS CONSERVATION CHEMICAL CO.'S RANGED FROM 20 TO 70 YEARS.

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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
0335	04/16/91	Pb, Hg, Ni, Cd, As, Cr, Zn, Fe, OIL	EFFLUENT DISCHARGE REPORTS FOR SELECTED FACILITIES IN GARY AREA. INDUSTRIES MONITORED INCLUDED: ENERGY COOPERATIVE, INC. (ECI); LTV STEEL CO., INC. (LTV); GSD; AMOCO OIL CO. (AMOCO); HAMMOND MUNICIPAL SEWAGE TREATMENT PLANT; GARY WASTEWATER TREATMENT PLANT; AND E.I. DUPONT DE NEMOURS & CO. (DUPONT). RESULTS OF EFFLUENT TESTED FOR OIL AND GREASE, TOTAL SOLIDS, GROSS FLOW, NITROGEN, AMMONIA, CHLORIDE, SULFATE, FLUORIDE, Fe, PHENOLICS, TIN, Pb, CYANIDE, Cd, GROSS OXYGEN DEMAND, POTASSIUM, As, Cr, Cu, Hg, BIOCHEMICAL OXYGEN DEMAND AND SELENIUM. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.

ALL INFORMATION ABOVE (EXCLUDING SUMMARIES) WAS TAKEN VERBATIM FROM THE COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
0335	04/16/91	Pb, Hg, Ni, Cd, As, Cr, Zn, Fe, OIL	EFFLUENT DISCHARGE REPORTS FOR SELECTED FACILITIES IN GARY AREA. INDUSTRIES MONITORED INCLUDED: ENERGY COOPERATIVE, INC. (ECI); LTV STEEL CO., INC. (LTV); GSD; AMOCO OIL CO. (AMOCO); HAMMOND MUNICIPAL SEWAGE TREATMENT PLANT; GARY WASTEWATER TREATMENT PLANT; AND E.I. DUPONT DE NEMOURS & CO. (DUPONT). RESULTS OF EFFLUENT TESTED FOR OIL AND GREASE, TOTAL SOLIDS, GROSS FLOW, NITROGEN, AMMONIA, CHLORIDE, SULFATE, FLUORIDE, Fe, PHENOLICS, TIN, Pb, CYANIDE, Cd, GROSS OXYGEN DEMAND, POTASSIUM, As, Cr, Cu, Hg, BIOCHEMICAL OXYGEN DEMAND AND SELENIUM. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.

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APPENDIX D
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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
0935	02/29/88	NONE LISTED	MEMO TO EPA STAFF REGARDING A PHONE CONVERSATION WITH OFFICAL OF GARY REGIONAL AIRPORT (AIRPORT). THE AIRPORT PLANNED TO PURCHASE AVIATION EASEMENTS ON CONSERVATION CHEMICAL CO. (CCC) PROPERTY. THE AIRPORT ALSO WANTED TO PURCHASE LAND FROM HOOSIER STATE TRUST PROPERTY THAT NEIGHBORED CCC.
0936	02/02/88	NONE LISTED	MEMO TO EPA STAFF REGARDING CONVERSATION WITH OFFICE OF REGIONAL COUNSEL ABOUT GARY REGIONAL AIRPORT'S PLAN FOR BUYING CONSERVATION CHEMICAL COMPANY'S PROPERTY. EPA USUALLY DOES NOT TAKE OVER A SITE BUT RESTRICTIONS ON LAND SUCH AS CONSERVATION CHEMICAL CO.'S RANGED FROM 20 TO 70 YEARS.

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0935

02/29/88

NONE LISTED

MEMO TO EPA STAFF REGARDING A PHONE CONVERSATION
 WITH OFFICAL OF GARY REGIONAL AIRPORT (AIRPORT).
 THE AIRPORT PLANNED TO PURCHASE AVIATION EASEMENTS
 ON CONSERVATION CHEMICAL CO. (CCC) PROPERTY. THE
 AIRPORT ALSO WANTED TO PURCHASE LAND FROM HOOSIER
 STATE TRUST PROPERTY THAT NEIGHBORED CCC.

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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
0937	02/01/88	PCB	LETTER REGARDING A 2/2/88 AGREEMENT BETWEEN GSD AND LAND AND LAKES CO. (LDLCO) WHICH ALLOWED GSD TO DISPOSE OF SLUDGE AT LDLCO. CONDITIONS WERE SET PERTAINING TO DISPOSAL METHODS, COSTS, AND REQUIREMENTS. LDLCO WANTED PCB CONCENTRATIONS IN RSL'S SUPERNATANT TO BE BELOW 25 ppm AND GSD ACKNOWLEDGED THIS.
0942	12/08/87	PCB	LETTER FROM EPA TO LAND AND LAKES COMPANY (LDLCO) REGARDING CONCERNS ASSOCIATED WITH GSD DISPOSAL OF SLUDGE AT LDLCO. LAB RESULTS OBTAINED BY GSD INDICATED NO DETECTABLE TRACES OF PCB. LDLCO WAS CONCERNED THAT ACCEPTING SLUDGE FROM GSD MIGHT IMPACT THEIR "NON-HAZARDOUS" STATUS.

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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
0335	04/16/91	Pb, Hg, Ni, Cd, As, Cr, Zn, Fe, OIL	EFFLUENT DISCHARGE REPORTS FOR SELECTED FACILITIES IN GARY AREA. INDUSTRIES MONITORED INCLUDED: ENERGY COOPERATIVE, INC. (ECI); LTV STEEL CO., INC. (LTV); GSD; AMOCO OIL CO. (AMOCO); HAMMOND MUNICIPAL SEWAGE TREATMENT PLANT; GARY WASTEWATER TREATMENT PLANT; AND E.I. DUPONT DE NEMOURS & CO. (DUPONT). RESULTS OF EFFLUENT TESTED FOR OIL AND GREASE, TOTAL SOLIDS, GROSS FLOW, NITROGEN, AMMONIA, CHLORIDE, SULFATE, FLUORIDE, Fe, PHENOLICS, TIN, Pb, CYANIDE, Cd, GROSS OXYGEN DEMAND, POTASSIUM, As, Cr, Cu, Hg, BIOCHEMICAL OXYGEN DEMAND AND SELENIUM. NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF THE RESULTS.

ALL INFORMATION ABOVE (EXCLUDING SUMMARIES) WAS TAKEN VERBATIM FROM THE COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
0928	04/29/88	NONE LISTED	INTEROFFICE MEMO AT EPA REGARDING FEASIBILITY STUDY FOR MIDCO I, A FORMER INDUSTRIAL WASTE RECYCLING, STORAGE, AND DISPOSAL OPERATION IN GARY, INDIANA. IN 1976, FIRE DESTROYED 14,000 DRUMS WHICH HELPED IN DEGRADING THE AREA'S RESOURCES (GROUND WATER, SURFACE WATER, SOILS). THE FEASIBILITY STUDY AIMED TO REMEDIATE SURROUNDING SURFACE WATER SEDIMENTS AND ELIMINATE CONTAMINATION. SURFACE WATER CONCENTRATIONS OF INORGANICS EXCEEDED WATER QUALITY CRITERIA. THE TREATMENT TECHNIQUE SUGGESTED WAS APPLYING LIME TO PRECIPITATE DISSOLVED METALS.

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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
0862	05/05/88	Cu, Zn, Fe	DATA PORTION OF A FIELD INSPECTION TEAM REPORT ON THE NINTH AVENUE DUMP THAT SUMMARIZED FINDINGS OF WATER SAMPLE ANALYSES. ANALYSIS OF SAMPLES FOR TOTAL METALS AND CYANIDES SHOWED THAT LIMITS FOR Cu, Zn, AND Fe WERE EXCEEDED. SAMPLES WERE ALSO TESTED FOR VOLATILE AND SEMI-VOLATILE ORGANICS, AS WELL AS PESTICIDES.
0933	03/29/88	PCB, TCDD, FURN, PAH, OIL	INTEROFFICE MEMO AT EPA REGARDING FEASIBILITY STUDY ON NINTH AVENUE DUMP, AN INACTIVE CHEMICAL AND INDUSTRIAL DISPOSAL AREA IN GARY, INDIANA. CONTAMINANTS FOUND IN SOIL AND SURFACE WATERS WERE PCBs, PAH's, METALS, PESTICIDES, DIOXINS, OIL, AND FURANS. GROUND WATER CONTAINMENT AND REMEDIATION WERE SUGGESTED AS ALTERNATIVES. GROUND WATER FLOW AT NINTH AVENUE DUMP WAS TO THE NORTH, AND INFILTRATES GRAND CALUMET RIVER AND LAKE MICHIGAN.

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DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
0528	07/28/89	PCB, Pb, Hg, Cd, Ba, Fe, Ni, As, Cu, Cr, Zn	<p>FINAL REPORT WITH APPENDICES ON RSL REMEDIATION PROJECT COMPLETED FOR GSD BY THREE PURDUE UNIVERSITY PROFESSORS. THE CITY OF GARY ACQUIRED THE RSL IN 1962. PCBs WERE DISCOVERED IN THE LAGOON SEDIMENTS IN 1980, WARRANTING REMEDIATION OF THE LAGOON. THE PLAN OF ACTION WAS TO PERFORM FINAL CLOSURE SO THAT THE LAGOON CONTENTS WOULD BE CONTAINED ON SITE, WITHIN A LOW PERMEABILITY BOUNDARY, TO PREVENT CONTACT WITH GROUND WATER AND SURFACE WATER, AND LEAKAGE OF CONTAMINATED CONTENTS. SLUDGE SAMPLES WERE TESTED AND DID NOT DISPLAY IGNITABILITY, CORROSIVITY, REACTIVITY OR EP TOXICITY; THEREFORE, RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REGULATIONS DID NOT APPLY TO RSL SLUDGE DISPOSAL. INFLUENT AND EFFLUENT PIPES WERE INSTALLED FOR SLUDGE STORAGE PURPOSES. DUE TO PCB CONTAMINATION, THE PIPES REQUIRED SEALING TO ISOLATE THE LAGOON FROM THE GRAND CALUMET RIVER (GCR) AND GARY WASTEWATER TREATMENT PLANT (GWTP). THE LAGOON HAD A SURFACE AREA OF 18.5 ACRES. ABOUT 600,000 CUBIC-YARDS OF SLUDGE HAD BEEN PUMPED TO THE LAGOON. THE AVERAGE PCB CONTENT WAS 220-240 mg/l. SAMPLING WELLS WERE SAMPLED AND THREE SHOWED PCB LEVELS HIGHER THAN DETECTION LIMITS. BARIUM (Ba) WAS ABOVE DETECTION LIMITS AND INCREASED WITH DEPTH. SAMPLING AND ANALYSIS OF RSL WAS PERFORMED THREE TIMES BETWEEN 1983-1989. THE 5/83 PCB LEVELS WERE HIGHEST IN THE CENTER AND WEST REGIONS OF THE LAGOON WHILE LOWER IN THE EAST REGION. Cu AND Pb LEVELS WERE HIGH FOR LOWER DEPTHS SAMPLES. Cd WAS ALSO DETECTED. THE 5/86 DATA BY CANONIE, INC. SHOWED THAT THE CENTER OF THE LAGOON HAD THE HIGHEST LEVELS OF PCBs (730 ppm AS OPPOSED TO VALUES BELOW 100 ppm FOR EAST AND WEST REGIONS). THE 6/89 DATA SHOWED LOWER PCB LEVELS EXISTED IN THE OVERLYING LAGOON WATERS. THE 6/89 SAMPLING WAS LIMITED TO THE OVERLYING LAGOON WATERS IN ORDER TO EVALUATE BOTH ITS CHARACTER AND THE PROSPECTIVE UTILITY OF FILTRATION AS A MEANS OF REMOVING ITS</p>

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"SUSPECTED" PARTICLE-BOUND PCB CONTAMINATION. HOWEVER, THE "AFTER FILTRATION" SAMPLES WERE VOID OF PCBs. FILTRATION WAS CONSIDERED A POTENTIAL METHOD OF TREATING THE LAGOON WATERS. PCBs WERE FOUND TO HAVE AFFINITY FOR SLUDGE (SOLIDS) RATHER THAN LIQUIDS, THEREFORE, IT WAS UNLIKELY THAT SPREADING WOULD OCCUR. THE AVERAGE PCB CONCENTRATION IN 1983 WAS 224 ppm AND 238 ppm IN 1986, WHICH SUGGESTED PCBs WERE NOT LEAVING THE SITE AT A SIGNIFICANT RATE. NO PROBLEMS WITH METALS WERE APPARENT, EXCEPT FOR Ba. GROUND WATER SAMPLING SHOWED THAT AMMONIA-NITROGEN, TOTAL DISSOLVED SOLIDS (TDS), SPECIFIC GRAVITY (SG), AND CHLORIDES (Cl) INCREASED GOING FROM THE SOUTHEAST PORTION TO THE LAGOON TO THE NORTHWEST PORTION (THE DIRECTION OF GROUND WATER FLOW). MATERIALS WERE MOVING FROM THE LAGOON VIA GROUND WATER TRANSPORT TOWARD THE RIVER. HOWEVER PCBs DID NOT TRAVEL IN THIS MANNER. THERE APPEARED TO BE NO SIZEABLE MOVEMENTS OF METALS AND PCBs. PCBs WERE MAINLY PRESENT IN ONE WELL OVER THE 6-YEAR STUDY. ONLY Ba WAS OBSERVED TO BE IN EXCESS OF DRINKING WATER STANDARDS. STUDIES PROVED THAT FLOW IN GCR IS HIGHLY VARIABLE AND DEPENDENT ON EFFLUENT FLOW RATES FROM UNITED STATES STEEL CORPORATION (STEEL) AND GSD. A STUDY BY U.S. GEOLOGICAL SURVEY SHOWED WATER QUALITY STANDARDS WERE VIOLATED FOR Fe, Pb, PHENOL, AND PHOSPHOROUS. A STUDY BY HYDROQUAL, INC. SHOWED VIOLATIONS FOR DISSOLVED OXYGEN, FECAL COLIFORM, AMMONIA, AND Hg NEAR STEEL OUTFALLS. ONLY FECAL COLIFORM REGULATIONS WERE VIOLATED IN THE VICINITY OF THE RSL. A 1986 STUDY BY CANONIE ENGINEERS, INC. SHOWED CONSISTENTLY LOW PCB LEVELS UPSTREAM, ADJACENT TO, AND DOWNSTREAM FROM RSL. NO EVIDENCE EXISTED INDICATING THAT THE LAGOON IS THE SOURCE OF PCB CONTAMINATION TO GCR VIA GROUND WATER BUT IT IS POSSIBLE THAT FLOODING OF THE LAGOON BY GCR COULD CAUSE PHYSICAL WITHDRAWAL OF PCBs FROM THE LAGOON. PREDOMINANT DIRECTION OF

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DOCUMENTS FOR ALL OTHER COMPILED DOCUMENTS
REFERENCING UNITED STATES STEEL CORPORATION
SORTED BY PRP AND INDICATING CRITICAL CONTAMINANTS
REFERENCED (IF LISTED)

Page No. 3

DOCUMENT CONTROL NUMBER	DATE	CRITICAL CONTAMINANTS	SUMMARY
			GROUND WATER FLOW WAS FOUND TO BE FROM THE LAGOON TO GCR BUT IT WAS POSSIBLE TO BE OPPOSITE AT TIMES. POLLUTANT CONCENTRATIONS INCREASED FROM SOUTHEAST TO NORTHWEST SUGGESTING SOUTHEAST TO NORTHWEST FLOW DIRECTION. INCLUDED WITH FINAL REPORT WERE INTERIM AND LONG TERM ALTERNATIVES FOR LONG TERM STABILIZATION OF RSL. Ni, As, Cu, Cr, AND Zn WERE ALSO SAMPLED BUT NO PARAMETERS WERE GIVEN TO ALLOW AN ANALYSIS OR A COMPARISON OF RESULTS.
0939	12/19/87	NONE LISTED	MEMO REGARDING A MEETING BETWEEN EPA, GSD, U.S. ATTORNEY'S OFFICE, AND CONSULTANTS TO DISCUSS GSD'S PETITION FOR MODIFICATION AND DEADLINE FOR CLOSING THE RSL. GSD COULD NOT PROPOSE A SCHEDULE FOR CLOSING RSL. EPA INFORMED GSD THAT VIOLATIONS EXISTED FOR PHENOL LIMITS. GSD ATTRIBUTED HIGH PHENOLS TO UNITED STATES STEEL CORPORATION WASTEWATER. A DISCUSSION ABOUT THE GSD WASTEWATER TREATMENT PLANT DIGESTER SYSTEM (ANOTHER PART OF GSD SYSTEM) IS ALSO STATED. A DIGESTION SYSTEM FOR THE PCB-CONTAMINATED SLUDGE WENT INTO OPERATION ON 12/1/87. IN THIS SYSTEM, SLUDGE WAS ROUTED TO VARIOUS DIGESTERS RATHER THAN TO THE LAGOON.
0982	06/17/87	NONE LISTED	EVALUATION FORM AND COMPLIANCE SAMPLING INSPECTION REPORT FOR GSD'S WASTEWATER TREATMENT PLANT. GSD SUBMITTED A REQUEST ON 4/15/87 TO MODIFY THE CONSENT JUDGEMENT SCHEDULE FOR CEASING THE USE OF THE RSL FOR SLUDGE DISPOSAL. AN INSPECTION ON 5/12/87 SHOWED GSD TO BE IN POOR STANDING WITH REGARDS TO SELF-MONITORING PROGRAMS. EFFLUENT OF GSD HAD HIGH LEVELS OF PHENOLS AND CYANIDES. LAST YEAR, UNITED STATES STEEL CORPORATION HAD A PHENOL-TYPE DISCHARGE WHICH SEVERELY AFFECTED

ALL INFORMATION ABOVE (EXCLUDING SUMMARIES) WAS TAKEN VERBATIM FROM THE COMPILED DOCUMENTS

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APPENDIX D
PRP CHEMICAL DATABASES
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
DOCUMENTS FOR ALL OTHER COMPILED DOCUMENTS
REFERENCING UNITED STATES STEEL CORPORATION
SORTED BY PRP AND INDICATING CRITICAL CONTAMINANTS
REFERENCED (IF LISTED)

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DOCUMENT
CONTROL
NUMBER

DATE

CRITICAL
CONTAMINANTS

SUMMARY

BIOLOGICAL ACTIVITY.

ALL INFORMATION ABOVE (EXCLUDING SUMMARIES) WAS TAKEN VERBATIM FROM THE COMPILED DOCUMENTS

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APPENDIX E

EMPLOYEE DATABASE FOR THE CERCLA 104(E)
INFORMATION REQUEST RESPONSE

LAF 0159934

APPENDIX E
 GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
 RECORDS SEARCH
 RALSTON STREET LAGOON (RSL)
 EMPLOYEE DATABASE FOR CERCLA 104(e) INFORMATION
 RESPONSE REQUEST

Page No. 1

DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0042	D. PETERSON	NOT LISTED	EMS LABORATORIES, INC.
0042	ROBERT J. JAKUBIEC	PRESIDENT-LAB. DIRECTOR	ENVIRO-TEST, INC.
0001	ARAVIND MUZUMDAR	NOT LISTED	GARY SANITARY DISTRICT
0042	ARAVIND MUZUMDAR	CONSTRUCTION GRANTS COORDINATOR	GARY SANITARY DISTRICT
0041	CANONIE ENGINEERS	CONTRACTOR	GARY SANITARY DISTRICT
0042	CANONIE ENGINEERS	CONTRACTOR	GARY SANITARY DISTRICT
0042	CHEM BIO CORPORATION (CBC) ENVIRONMENTAL SERVICES	CONTRACTOR	GARY SANITARY DISTRICT
0042	EMS LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0042	ENVIRO-TEST, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0001	EUGENE L. KEZY	DIRECTOR	GARY SANITARY DISTRICT
0042	GULF COAST LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0006	GULF COAST LABS	CONTRACTOR	GARY SANITARY DISTRICT

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APPENDIX E
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR CERCLA 104(e) INFORMATION
RESPONSE REQUEST

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0042	LEON SMITH	ASSISTANT PLANT SUPERINTENDENT	GARY SANITARY DISTRICT
0042	LINCOLN DONALDSON	INTERIM DIRECTOR	GARY SANITARY DISTRICT
0001	LINCOLN DONALDSON	NOT LISTED	GARY SANITARY DISTRICT
0042	MICROBAC LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0006	MR. HUZUHDAR	NOT LISTED	GARY SANITARY DISTRICT
0042	NORTHERN LABORATORIES AND ENGINEERING, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0042	RAO B. PATURI	PRETREATMENT COORDINATOR	GARY SANITARY DISTRICT
0042	SUBURBAN LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0042	TEI ANALYTICAL, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0006	DONALD GIPPLE	NOT LISTED	GULF COAST LABORATORIES, INC.
0042	DONALD GIPPLE	NOT LISTED	GULF COAST LABORATORIES, INC.
0036	ANAH L. TAGGART	ASSISTANT TRUST OFFICER	LAKE COUNTY TRUST COMPANY

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APPENDIX E
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR CERCLA 104(e) INFORMATION
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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0036	IDA M. LEHNERTZ	ASSISTANT SECRETARY	LAKE COUNTY TRUST COMPANY
0042	KAREN A. ZIOLKOWSKI	LABORATORY DIRECTOR	MICROBAC LABORATORIES, INC./GARY SANITARY DISTRICT
0042	DIAHE L. HARPER	MANAGER OF OPERATIONS	NORTHERN LABORATORIES AND ENGINEERING, INC.
0036	DORATHY HORST	NOTARY PUBLIC	NOT LISTED
0036	RAY C. THOMAS	NOTARY PUBLIC	NOT LISTED
0042	EARL I. ROSENBURG	PRESIDENT	SUBURBAN LABORATORIES, INC.
0042	LAZARO-LOPEZ, JR.	ASSOCIATE DIRECTOR	SUBURBAN LABORATORIES, INC.
0001	JO LYNN TRAUB	ACTING CHIEF, SUPERFUND PROGRAM MANAGEMENT BRANCH	U.S. ENVIRONMENTAL PROTECTION AGENCY
0001	JOSEPH KAWECKI	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0036	ROBERT L. ALTREUTER	ASSISTANT SECRETARY	UNION BUILDING & CONSTRUCTION CORPORATION
0036	THOMAS C. KNOWLES	VICE PRESIDENT	UNION BUILDING & CONSTRUCTION CORPORATION

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APPENDIX F

EMPLOYEE DATABASE FOR OTHER COMPILED DOCUMENTS

LAF 0159938

APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1062	DAVID A. KOCHENDORFER	ENGINEER	CANONIE ENGINEERS, INC.
1174	PHILLIP ANTONMARIA	NOT LISTED	CANONIE ENGINEERS, INC.
1062	RICHARD F. BRISSETE	PRESIDENT	CANONIE ENGINEERS, INC.
0528	ENVIRONMENTAL RESEARCH GROUP	CONTRACTOR	CANONIE ENGINEERS, INC./GARY SANITARY DISTRICT
1036	DEBORAH L. MENIGOZ	PERMIT MANAGER	CID PROCESSING CENTER
1036	R. DeYOUNG	NOT LISTED	CID PROCESSING CENTER
1036	WILLIAM R. KARPAS	TECHNICAL MANAGER	CID PROCESSING CENTER
0792	ALTON GILL	ATTORNEY	CITY OF GARY, INDIANA
0829	ALTON GILL	ATTORNEY	CITY OF GARY, INDIANA
0404	THOMAS V. BARNES	MAYOR	CITY OF GARY, INDIANA
0792	THOMAS V. BARNES	MAYOR	CITY OF GARY, INDIANA
0829	THOMAS V. BARNES	MAYOR	CITY OF GARY, INDIANA

LAF 0159939

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APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0832	THOMAS V. BARNES	MAYOR	CITY OF GARY, INDIANA
0268	CRAIG ALMANZA	FIELD INVESTIGATION TEAM	ECOLOGY AND ENVIRONMENT, INC.
0262	PAT PATRELLA	NOT LISTED	ECOLOGY AND ENVIRONMENT, INC.
0268	PAT PETRELLA	FIELD INVESTIGATION TEAM	ECOLOGY AND ENVIRONMENT, INC.
0935	BILL DOUGLAS	EXECUTIVE DIRECTOR	GARY REGIONAL AIRPORT
0944	MOTIRYO KEAMBIROIRO	NOT LISTED	GARY SANITARY DISTRICT
1174	MOTIRYO KEAMBIROIRO	DIRECTOR	GARY SANITARY DISTRICT
1164	MOTRYRIO KEAMBIRIORIO	DIRECTRESS	GARY SANITARY DISTRICT
1274	A. MUZUMDAR	NOT LISTED	GARY SANITARY DISTRICT
1288	A. MUZUMDAR	NOT LISTED	GARY SANITARY DISTRICT
0200	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0226	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT

LAF 0159940

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APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0227	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0832	ALFRED HAMMONDS	PRESIDENT	GARY SANITARY DISTRICT
0930	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0937	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1024	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1062	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1172	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1177	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1226	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1258	ALFRED HAMMONDS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0429	ALLEMAN AND ASSOCIATES	CONSULTANTS	GARY SANITARY DISTRICT
0389	ALVIN HICKENS	SURVEILLANCE INVESTIGATOR	GARY SANITARY DISTRICT

LAF 0159941

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APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
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EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0392	ALVIN HICKENS	NOT LISTED	GARY SANITARY DISTRICT
0449	ALVIN HICKENS	INVESTIGATOR	GARY SANITARY DISTRICT
0200	ARAVIND MUZUMDAR	DISTRICT DIRECTOR	GARY SANITARY DISTRICT
0226	ARAVIND MUZUMDAR	DISTRICT DIRECTOR	GARY SANITARY DISTRICT
0227	ARAVIND MUZUMDAR	DISTRICT DIRECTOR	GARY SANITARY DISTRICT
0231	ARAVIND MUZUMDAR	NOT LISTED	GARY SANITARY DISTRICT
0236	ARAVIND MUZUMDAR	DIRECTOR	GARY SANITARY DISTRICT
0260	ARAVIND MUZUMDAR	DIRECTOR	GARY SANITARY DISTRICT
0392	ARAVIND MUZUMDAR	CONSTRUCTION GRANTS COORDINATOR	GARY SANITARY DISTRICT
0418	ARAVIND MUZUMDAR	CONSTRUCTION GRANTS COORDINATOR	GARY SANITARY DISTRICT
1172	ARAVIND MUZUMDAR	GRANTS COORDINATOR	GARY SANITARY DISTRICT
1177	ARAVIND MUZUMDAR	DIRECTOR	GARY SANITARY DISTRICT

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APPENDIX F
 GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
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 RALSTON STREET LAGOON (RSL)
 EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1226	ARAVIND MUZUMDAR	DIRECTOR	GARY SANITARY DISTRICT
1258	ARAVIND MUZUMDAR	DIRECTOR	GARY SANITARY DISTRICT
1024	ARVIND MUZUMDAR	CONSTRUCTION GRANTS COORDINATOR	GARY SANITARY DISTRICT
0262	CANDIE ENGINEERING, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0528	CANDIE ENGINEERS, INC.	CONTRACTOR, CONSULTANT	GARY SANITARY DISTRICT
0528	CHEM-BIO CORPORATION	CONTRACTOR	GARY SANITARY DISTRICT
0982	CORNELL MONROE	ASSISTANT PLANT SUPERINTENDENT	GARY SANITARY DISTRICT
1172	CORNELL MONROE	ACTING ASSISTANT PLANT SUPERINTENDENT	GARY SANITARY DISTRICT
0226	DR. RAO B. PATURI	LABORATORY AND GENERAL SURVEILLANCE	GARY SANITARY DISTRICT
1172	ELAINE GORDON	PERSONNEL SUPERVISOR	GARY SANITARY DISTRICT
1177	ELAINE GORDON	PERSONNEL SUPERVISOR	GARY SANITARY DISTRICT
1226	ELAINE GORDON	TRAINING COORDINATOR	GARY SANITARY DISTRICT

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APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0528	EMS LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0528	ENVIRO-TEST, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0404	ERNEST JONES	PRESIDENT, Ph. D./BOARD OF SANITARY COMMISSIONERS	GARY SANITARY DISTRICT
0343	EUGENE L. KEZY	DIRECTOR	GARY SANITARY DISTRICT
0389	EUGENE L. KEZY	DIRECTOR	GARY SANITARY DISTRICT
0392	EUGENE L. KEZY	DIRECTOR	GARY SANITARY DISTRICT
0404	EUGENE L. KEZY	DIRECTOR	GARY SANITARY DISTRICT
0412	EUGENE L. KEZY	DIRECTOR	GARY SANITARY DISTRICT
0425	GARY SANITARY DISTRICT BOARD OF COMMISSIONERS	COMMISSIONERS	GARY SANITARY DISTRICT
1123	GULF COAST LABORATORIES	CONTRACTOR	GARY SANITARY DISTRICT
0528	GULF COAST LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
1274	GULF COAST LABORATORIES, INC.	NOT LISTED	GARY SANITARY DISTRICT

ALL INFORMATION ABOVE WAS TAKEN VERBATIM FROM THE COMPILED DOCUMENTS

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LAF 0159944

APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1288	GULF COAST LABORATORIES, INC.	NOT LISTED	GARY SANITARY DISTRICT
1300	GULF COAST LABORATORIES, INC.	NOT LISTED	GARY SANITARY DISTRICT
0290	GULF COAST LABS, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0939	HAVENS AND EMERSON CONSULTING ENGINEERS	CONSULTING ENGINEERS	GARY SANITARY DISTRICT
0226	HAVENS AND EMERSON, INC.	CONSULTANTS	GARY SANITARY DISTRICT
0944	HAVENS AND EMERSON, INC.	NOT LISTED	GARY SANITARY DISTRICT
1258	HAVENS AND EMERSON, INC.	NOT LISTED	GARY SANITARY DISTRICT
0930	HYDROQUAL, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0528	IAE, INC.	CONSULTANT	GARY SANITARY DISTRICT
0832	IAE, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0843	IAE, INC.	CONTRACTOR/CONSULTANT	GARY SANITARY DISTRICT
1062	INDO-AMERICAN ENGINEERS, INC.	CONTRACTOR	GARY SANITARY DISTRICT

LAF 0159945

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APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1174	INDO-AMERICAN ENGINEERS, INC.	CONSULTANTS	GARY SANITARY DISTRICT
1184	INDO-AMERICAN ENGINEERS, INC.	CONSULTING ENGINEERS	GARY SANITARY DISTRICT
1036	J. SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
0226	JACKIE L. SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
0404	JACKIE L. SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
0425	JACKIE L. SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
1062	JACKIE L. SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
1177	JACKIE L. SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
1226	JACKIE L. SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
1258	JACKIE L. SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
0200	JACKIE SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
0227	JACKIE SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT

LAF 0159946

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APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0829	JACKIE SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
0832	JACKIE SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
0937	JACKIE SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
1024	JACKIE SHROPSHIRE	ATTORNEY	GARY SANITARY DISTRICT
1172	JACKIE SHROPSHIRE	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0404	JAMES ALLEMAN	PROFESSOR	GARY SANITARY DISTRICT
1062	JAMES MEIER	NOT LISTED	GARY SANITARY DISTRICT
1167	JAMES MEIER	DIRECTOR	GARY SANITARY DISTRICT
0268	JAMES MEYER	SUPERINTENDENT	GARY SANITARY DISTRICT
0937	JAMES R. MEIER	DIRECTOR	GARY SANITARY DISTRICT
1024	JAMES R. MEIER	DIRECTOR	GARY SANITARY DISTRICT
0226	JEROME F. FIFER	ATTORNEY	GARY SANITARY DISTRICT

LAF 0159947

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APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1226	JEROME F. FIFER	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1258	JEROME F. FIFER	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0930	JEROME FIFER	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0937	JEROME FIFER	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1024	JEROME FIFER	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1062	JEROME FIFER	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1172	JEROME FIFER	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1177	JEROME FIFER	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0227	JOHN L. SHIVERS	TRAINING COORDINATOR	GARY SANITARY DISTRICT
0200	JOHN L. SHIVERS, JR.	TRAINING COORDINATOR	GARY SANITARY DISTRICT
0528	K & S TESTING AND ENGINEERING, INC.	CONSULTANT	GARY SANITARY DISTRICT
0944	K & S TESTING AND ENGINEERING, INC.	CONSULTANT	GARY SANITARY DISTRICT

ALL INFORMATION ABOVE WAS TAKEN VERBATIM FROM THE COMPILED DOCUMENTS

LAF 0159948

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APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0832	K & S TESTING, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0939	K AND S CONTRACTORS	CONTRACTOR	GARY SANITARY DISTRICT
0982	KEVIN MOTT	LABORATORY MANAGER	GARY SANITARY DISTRICT
0982	LEE SMITH	PLANT SUPERINTENDENT	GARY SANITARY DISTRICT
1024	LEE SMITH	NOT LISTED	GARY SANITARY DISTRICT
1036	LEE SMITH	SUPERINTENDENT	GARY SANITARY DISTRICT
0418	LEON SMITH	ASSISTANT PLANT SUPERINTENDENT	GARY SANITARY DISTRICT
0200	LEON T. SMITH	SUPERINTENDENT	GARY SANITARY DISTRICT
0226	LEON T. SMITH	SUPERINTENDENT	GARY SANITARY DISTRICT
0227	LEON T. SMITH	SUPERINTENDENT	GARY SANITARY DISTRICT
0236	LEON T. SMITH	OPERATOR	GARY SANITARY DISTRICT
0343	LEON T. SMITH	ASSISTANT PLANT SUPERINTENDENT	GARY SANITARY DISTRICT

LAF 0159949

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APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0392	LEON T. SMITH	ASSISTANT PLANT SUPERINTENDENT	GARY SANITARY DISTRICT
0449	LEON T. SMITH	ASSISTANT PLANT SUPERINTENDENT	GARY SANITARY DISTRICT
1226	LEON T. SMITH	SUPERINTENDENT	GARY SANITARY DISTRICT
1258	LEON T. SMITH	SUPERINTENDENT	GARY SANITARY DISTRICT
0200	LINCOLN DONALDSON	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0226	LINCOLN DONALDSON	DISTRICT ENGINEER	GARY SANITARY DISTRICT
0227	LINCOLN DONALDSON	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0396	LINCOLN DONALDSON	PROFESSIONAL ENGINEER, INTERIM DIRECTOR	GARY SANITARY DISTRICT
0404	LINCOLN DONALDSON	INTERIM DIRECTOR	GARY SANITARY DISTRICT
0415	LINCOLN DONALDSON	INTERIM DIRECTOR	GARY SANITARY DISTRICT
0418	LINCOLN DONALDSON	INTERIM DIRECTOR	GARY SANITARY DISTRICT
0430	LINCOLN DONALDSON	INTERIM DIRECTOR	GARY SANITARY DISTRICT

LAF 0159950

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APPENDIX F
GRAND CALUMET/NORTHWEST INDIANA INITIATIVE
RECORDS SEARCH
RALSTON STREET LAGOON (RSL)
EMPLOYEE DATABASE FOR ALL OTHER COMPILED DOCUMENTS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0442	LINCOLN DONALDSON	INTERIM DIRECTOR	GARY SANITARY DISTRICT
0449	LINCOLN DONALDSON	INTERIM DIRECTOR	GARY SANITARY DISTRICT
0792	LINCOLN DONALDSON	INTERIM DIRECTOR	GARY SANITARY DISTRICT
0829	LINCOLN DONALDSON	INTERIM DIRECTOR	GARY SANITARY DISTRICT
0832	LINCOLN DONALDSON	INTERIM DIRECTOR	GARY SANITARY DISTRICT
0843	LINCOLN DONALDSON	DIRECTOR	GARY SANITARY DISTRICT
1172	LINCOLN DONALDSON	DISTRICT ENGINEER	GARY SANITARY DISTRICT
1177	LINCOLN DONALDSON	DISTRICT ENGINEER	GARY SANITARY DISTRICT
1226	LINCOLN DONALDSON	DISTRICT ENGINEER	GARY SANITARY DISTRICT
1258	LINCOLN DONALDSON	DISTRICT ENGINEER	GARY SANITARY DISTRICT
0200	MARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0226	MARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT

LAF 0159951

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0227	HARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0930	HARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
0937	HARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1024	HARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1062	HARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1172	HARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1177	HARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1226	HARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1258	HARION WILLIAMS	BOARD OF COMMISSIONERS	GARY SANITARY DISTRICT
1172	MAURICE BAPTISTE	FISCAL OFFICER	GARY SANITARY DISTRICT
1177	MAURICE BAPTISTE	FISCAL OFFICER	GARY SANITARY DISTRICT
0389	MICROBAC LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0392	M CROBAC LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0412	M CROBAC LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0418	M CROBAC LABORATORIES, INC.	NOT LISTED	GARY SANITARY DISTRICT
0442	M CROBAC LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0200	M LLIE MELTON	ADMINISTRATIVE ASSISTANT	GARY SANITARY DISTRICT
0226	M LLIE MELTON	ADMINISTRATIVE ASSISTANT	GARY SANITARY DISTRICT
0227	M LLIE MELTON	ADMINISTRATIVE ASSISTANT	GARY SANITARY DISTRICT
1172	M LLIE MELTON	ADMINISTRATIVE ASSISTANT	GARY SANITARY DISTRICT
1177	M LLIE MELTON	ADMINISTRATIVE ASSISTANT	GARY SANITARY DISTRICT
1226	M LLIE MELTON	ADMINISTRATIVE ASSISTANT	GARY SANITARY DISTRICT
1258	M LLIE MELTON	ADMINISTRATIVE ASSISTANT	GARY SANITARY DISTRICT
1172	MOTIRYO C.D.N. KEAMBIROIRO	INTERIM DIRECTOR	GARY SANITARY DISTRICT

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0930	MOTIRYO KEAMBIROIRO	DIRECTRESS	GARY SANITARY DISTRICT
0937	MOTIRYO KEAMBIROIRO	DIRECTOR	GARY SANITARY DISTRICT
0982	MOTIRYO KEAMBIROIRO	DIRECTOR	GARY SANITARY DISTRICT
1024	MOTIRYO KEAMBIROIRO	DIRECTOR	GARY SANITARY DISTRICT
1036	MOTIRYO KEAMBIROIRO	DIRECTRESS	GARY SANITARY DISTRICT
1062	MOTIRYO KEAMBIROIRO	DISTRICT DIRECTOR	GARY SANITARY DISTRICT
1177	MOTIRYO KEAMBIROIRO	INTERIM DIRECTOR	GARY SANITARY DISTRICT
1300	HUZUMDAR	NOT LISTED	GARY SANITARY DISTRICT
0343	NORTHERN LABORATORIES	CONTRACTOR	GARY SANITARY DISTRICT
0528	NORTHERN LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
1184	NORTHERN LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
1228	POLYTECH, INC.	CONSULTANTS	GARY SANITARY DISTRICT

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0200	RAO B. PATURI	INDUSTRIAL SURVEILLANCE	GARY SANITARY DISTRICT
0227	RAO B. PATURI	INDUSTRIAL SURVEILLANCE	GARY SANITARY DISTRICT
0412	RAO B. PATURI	PRETREATMENT COORDINATOR	GARY SANITARY DISTRICT
1172	RAO B. PATURI	INDUSTRIAL SURVEILLANCE CHIEF	GARY SANITARY DISTRICT
1177	RAO B. PATURI	LABORATORY AND GENERAL SURVEILLANCE	GARY SANITARY DISTRICT
1226	RAO B. PATURI	LABORATORY & GENERAL SURVEILLANCE	GARY SANITARY DISTRICT
1258	RAO B. PATURI	LAB/GENERAL SURVEILLANCE	GARY SANITARY DISTRICT
0418	RAO PATURI	PRETREATMENT COORDINATOR	GARY SANITARY DISTRICT
0442	RAO PATURI	PRETREATMENT COORDINATOR	GARY SANITARY DISTRICT
0449	RAO PATURI	PRETREATMENT COORDINATOR	GARY SANITARY DISTRICT
0404	ROBERT J. TURNER	VICE-PRESIDENT/BOARD OF SANITARY COMMISSIONERS	GARY SANITARY DISTRICT
0832	ROBERT TURNER	SECRETARY	GARY SANITARY DISTRICT

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0404	ROLAND ELVAMBUENA	SECRETARY/BOARD OF SANITARY COMMISSIONERS	GARY SANITARY DISTRICT
0832	ROLAND ELVAMBUENA	VICE PRESIDENT	GARY SANITARY DISTRICT
1123	SALISBURY ENGINEERING	CONTRACTOR	GARY SANITARY DISTRICT
0528	SUBURBAN LABORATORIES, INC.	CONTRACTOR	GARY SANITARY DISTRICT
0528	TEI ANALYTICAL, INC.	CONTRACTOR	GARY SANITARY DISTRICT
1258	TRACE ELEMENTS, INC.	LABORATORY CONTRACTOR	GARY SANITARY DISTRICT
0262	VENDELL, CAMPBELL AND ASSOCIATES	CONTRACTOR	GARY SANITARY DISTRICT
0200	VINCENT LAFATA	SUPERINTENDENT, SEWER DIVISION	GARY SANITARY DISTRICT
0226	VINCENT LAFATA	SUPERINTENDENT OF SEWERS	GARY SANITARY DISTRICT
0227	VINCENT LAFATA	SEWER DIVISION SUPERINTENDENT	GARY SANITARY DISTRICT
0449	VINCENT LAFATA	SEWER SUPERINTENDENT	GARY SANITARY DISTRICT
1172	VINCENT LAFATA	ASSISTANT DIRECTOR OF OPERATIONS	GARY SANITARY DISTRICT

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1177	VINCENT LAFATA	ASSISTANT DIRECTOR, OPERATIONS	GARY SANITARY DISTRICT
1226	VINCENT LAFATA	SEWER DIVISION SUPERINTENDENT	GARY SANITARY DISTRICT
1258	VINCENT LAFATA	SEWER DIVISION SUPERINTENDENT	GARY SANITARY DISTRICT
1288	JOHN BOUDREAU	NOT LISTED	GULF COAST LABORATORIES, INC
0290	DONALD GIPPLE	NOT LISTED	GULF COAST LABORATORIES, INC.
1274	DONALD GIPPLE	NOT LISTED	GULF COAST LABORATORIES, INC.
1300	DONALD GIPPLE	NOT LISTED	GULF COAST LABORATORIES, INC.
0290	SALISBURY/ATECH ENGINEERING	CONTRACTOR	GULF COAST LABORATORIES, INC./GARY SANITARY DISTRICT
0939	GARY SIEGEL	PRINCIPAL IN CHARGE	HAVENS AND EMERSON CONSULTING ENGINEERS
0939	GEORGE PALKO	CHIEF CONSTRUCTION ENGINEER	HAVENS AND EMERSON CONSULTING ENGINEERS
0939	RICK BROWN	STAFF COUNSEL	HAVENS AND EMERSON CONSULTING ENGINEERS
0939	ROBERT BILLMAN	NOT LISTED	HAVENS AND EMERSON CONSULTING ENGINEERS

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0939	SAM CHRISTIE	RESIDENT ENGINEER	HAVENS AND EMERSON CONSULTING ENGINEERS
0939	SUPERIOR CONSTRUCTION	CONTRACTOR	HAVENS AND EMERSON CONSULTING ENGINEERS
0944	DAVID L. KLUNZINGER	NOT LISTED	HAVENS AND EMERSON, INC.
0944	GARY H. SIEGEL	NOT LISTED	HAVENS AND EMERSON, INC.
0200	GARY SIEGEL	NOT LISTED	HAVENS AND EMERSON, INC.
0227	GARY SIEGEL	NOT LISTED	HAVENS AND EMERSON, INC.
0944	JAMES L. BUTTLE	NOT LISTED	HAVENS AND EMERSON, INC.
0944	JAMES P. HARRIS	NOT LISTED	HAVENS AND EMERSON, INC.
0944	JEFFREY D. SHARON	NOT LISTED	HAVENS AND EMERSON, INC.
0944	JOSEPH E. DIETERMAN	NOT LISTED	HAVENS AND EMERSON, INC.
0944	JOSEPH J. BASISTA	NOT LISTED	HAVENS AND EMERSON, INC.
0944	KENNETH L. ZACHARIAS	NOT LISTED	HAVENS AND EMERSON, INC.

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0944	LARRY H. SOBEL	NOT LISTED	HAVENS AND EMERSON, INC.
0944	LAWRENCE J. PAPES	NOT LISTED	HAVENS AND EMERSON, INC.
0200	MICHAEL C. MULBARGER	NOT LISTED	HAVENS AND EMERSON, INC.
0227	MICHAEL MULBARGER	NOT LISTED	HAVENS AND EMERSON, INC.
0944	ROBERT L. KAERCHER	NOT LISTED	HAVENS AND EMERSON, INC.
0226	MICHAEL C. MULBARGER	NOT LISTED	HAVENS AND EMERSON, INC./GARY SANITARY DISTRICT
0226	DICK BROWN	NOT LISTED	HAVENS AND EMERSON, INC./GARY SANITARY DISTRICT
1062	PETER NIEMIEC	NOT LISTED	INDIANA ATTORNEY GENERAL'S OFFICE
0792	BRUCE PALIN	ACTING ASSISTANT COMMISSIONER FOR SOLID AND HAZARDOUS WASTE	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0937	C. BARDONHER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0343	CARLA MILLER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0389	CARLA MILLER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0392	CARLA MILLER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0412	CARLA MILLER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0418	CARLA MILLER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0343	JAMES E. ALLEMAN	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0930	LONNIE BRUMFIELD	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0937	R. BUNNER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0262	R. CLEATON	INSPECTOR	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0430	ROBERT BUNNER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0442	ROBERT BUNNER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0343	SKIP BUNNER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0392	SKIP BUNNER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0412	SKIP BUNNER	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0982	STEVE WOLF	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0792	STEVE WOLFE	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
0829	STEVE WOLFE	COMPLIANCE	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
1062	STEVE WOLFE	NOT LISTED	INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
1228	DAN STRAHL	NOT LISTED	INDIANA STATE BOARD OF HEALTH
0231	DAVE BERREY	INSPECTOR, LAND POLLUTION CONTROL DIVISION	INDIANA STATE BOARD OF HEALTH
0236	DAVE BERREY	INSPECTOR	INDIANA STATE BOARD OF HEALTH
0226	DAVID D. LAHM	NOT LISTED	INDIANA STATE BOARD OF HEALTH
1174	DAVID WAGNER	CONSTRUCTION GRANTS MANAGER	INDIANA STATE BOARD OF HEALTH
0330	DOH DAILY	NOT LISTED	INDIANA STATE BOARD OF HEALTH
1228	EARL BOHNER	NOT LISTED	INDIANA STATE BOARD OF HEALTH
0330	GEORGE OLIVER	NOT LISTED	INDIANA STATE BOARD OF HEALTH

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0200	GUINN DOYLE	CHIEF, HAZARDOUS WASTE MANAGEMENT	INDIANA STATE BOARD OF HEALTH
0227	GUINN DOYLE	CHIEF, HAZARDOUS WASTE MANAGEMENT	INDIANA STATE BOARD OF HEALTH
0231	GUINN DOYLE	CHIEF, HAZARDOUS WASTE MANAGEMENT/DIVISION OF LAND POLLUTION CONTROL	INDIANA STATE BOARD OF HEALTH
1228	JOE STALLSMITH	NOT LISTED	INDIANA STATE BOARD OF HEALTH
1167	JOSEPH C. STALLSMITH	CHIEF, OPERATIONS BRANCH, DIVISION OF WATER POLLUTION CONTROL	INDIANA STATE BOARD OF HEALTH
1226	JOSEPH C. STALLSMITH	OPERATIONS BRANCH	INDIANA STATE BOARD OF HEALTH
1228	LARRY KANE	NOT LISTED	INDIANA STATE BOARD OF HEALTH
0236	STEVE WAKEFIELD	INSPECTOR	INDIANA STATE BOARD OF HEALTH
1174	STEVE WOLFE	NOT LISTED	INDIANA STATE BOARD OF HEALTH
0231	STEVEN WAKEFIELD	INSPECTOR, LAND POLLUTION CONTROL DIVISION	INDIANA STATE BOARD OF HEALTH
1167	RAMA TALLURI	NOT LISTED	INDO-AMERICAN ENGINEERS, INC.

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1174	RAMAMURTY TALLURI	PRESIDENT	INDO-AMERICAN ENGINEERS, INC.
1174	CANONIE ENGINEERS	CONSULTANT	INDO-AMERICAN ENGINEERS, INC./GARY SANITARY DISTRICT
1062	CANONIE ENGINEERS, INC.	CONTRACTOR	INDO-AMERICAN ENGINEERS, INC./GARY SANITARY DISTRICT
0843	K & S TESTING AND ENGINEERING, INC.	CONTRACTOR	INDO-AMERICAN ENGINEERS, INC./GARY SANITARY DISTRICT
1062	K & S TESTING AND ENGINEERING, INC.	CONTRACTOR	INDO-AMERICAN ENGINEERS, INC./GARY SANITARY DISTRICT
0843	MOTTECH, INC.	CONTRACTOR	INDO-AMERICAN ENGINEERS, INC./GARY SANITARY DISTRICT
1062	RAHA TALLURI	PRESIDENT	INDO-AMERICAN ENGINEERS, INC./GARY SANITARY DISTRICT
0843	RAMAMURTY TALLURI	PRESIDENT	INDO-AMERICAN ENGINEERS, INC./GARY SANITARY DISTRICT
1184	SALISBURY ENGINEERING, INC.	CONTRACTOR	INDO-AMERICAN ENGINEERS, INC./GARY SANITARY DISTRICT
0843	DIBAKAR SUNDI	PROFESSIONAL ENGINEER	K & S TESTING AND ENGINEERING, INC.
1062	DIBAKAR SUNDI	NOT LISTED	K & S TESTING AND ENGINEERING, INC.
0843	SUREN SAXENA	PROFESSIONAL ENGINEER	K & S TESTING AND ENGINEERING, INC.

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1062	SUREN SAXENA	NOT LISTED	K & S TESTING AND ENGINEERING, INC.
0937	JAMES T. AMBROSO	ENVIRONMENTAL MANAGER	LAND AND LAKES COMPANY
0942	JAMES T AMBROSO	ENVIRONMENTAL MANAGER	LAND AND LAKES COMPANY
0389	KAREN A. ZIOLKOWSKI	LABORATORY DIRECTOR	MICROBAC LABORATORIES, INC./GARY SANITARY DISTRICT
0392	KAREN A. ZIOLKOWSKI	LABORATORY DIRECTOR	MICROBAC LABORATORIES, INC./GARY SANITARY DISTRICT
0412	KAREN A. ZIOLKOWSKI	LABORATORY DIRECTOR	MICROBAC LABORATORIES, INC./GARY SANITARY DISTRICT
0418	KAREN A. ZIOLKOWSKI	LABORATORY DIRECTOR	MICROBAC LABORATORIES, INC./GARY SANITARY DISTRICT
0442	KAREN A. ZIOLKOWSKI	LABORATORY DIRECTOR	MICROBAC LABORATORIES, INC./GARY SANITARY DISTRICT
0343	GREGORY L. GOODWIN	SVOA SECTION MANAGER	NORTHERN LABORATORIES AND ENGINEERING, INC.
0343	JOHN MACMURPIEY	MANAGER, ORGANIC CHEMISTRY	NORTHERN LABORATORIES AND ENGINEERING, INC.
1183	A. MUZUMDAR	NOT LISTED	NOT LISTED
0451	A. SMITH	NOT LISTED	NOT LISTED

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0939	A. WEINERT	NOT LISTED	NOT LISTED
0982	ALAN BAUMANN	NOT LISTED	NOT LISTED
1164	ALLISON HILTH	NOT LISTED	NOT LISTED
0944	ALTON GILL	NOT LISTED	NOT LISTED
0343	ALVIN HICKENS	SURVEILLANCE INVESTIGATOR	NOT LISTED
1123	ANDREW B. BAKER	ASSISTANT U.S. ATTORNEY	NOT LISTED
0425	ANDREW BAKER	NOT LISTED	NOT LISTED
0792	ANDREW BAKER	ASSISTANT U.S. ATTORNEY	NOT LISTED
0829	ANDREW BAKER	ASSISTANT U.S. ATTORNEY	NOT LISTED
0832	ANDREW BAKER	ASSISTANT U.S. ATTORNEY	NOT LISTED
0389	ARAVIND MUZUMDAR	GRANTS COORDINATOR	NOT LISTED
0396	ART SMITH	NOT LISTED	NOT LISTED

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1038	B. CONSTANTELOS	NOT LISTED	NOT LISTED
0939	B. FREY	NOT LISTED	NOT LISTED
1183	BILL ADAMS	NOT LISTED	NOT LISTED
0451	BRYSON	NOT LISTED	NOT LISTED
1038	C. HASK	NOT LISTED	NOT LISTED
1038	C. ROSS	NOT LISTED	NOT LISTED
0944	CHARLES BARDONNER	NOT LISTED	NOT LISTED
0389	CHARLES H. GRADDICK	ATTORNEY AT LAW	NOT LISTED
0404	CHARLES H. GRADDICK	ATTORNEY	NOT LISTED
0939	D. BRYSON	NOT LISTED	NOT LISTED
1038	D. BRYSON	NOT LISTED	NOT LISTED
1038	D. GERST	NOT LISTED	NOT LISTED

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1038	D. REAPE	NOT LISTED	NOT LISTED
0939	D. ULRICH	NOT LISTED	NOT LISTED
1228	D. WAGNER	NOT LISTED	NOT LISTED
1024	DEBORAH L. MENIGOZ	PERMIT MANAGER	NOT LISTED
0982	DOE SCHREGARDUS	NOT LISTED	NOT LISTED
1183	DUNNE HEATON	NOT LISTED	NOT LISTED
0442	ED HALTER	NOT LISTED	NOT LISTED
0528	ERNEST R. BLATCHLEY	NOT LISTED	NOT LISTED
0223	F. DAVIS	REVIEWER	NOT LISTED
1123	F. HENRY HABICHT, II	ASSISTANT ATTORNEY GENERAL	NOT LISTED
0944	FAROOQ NAZIR	NOT LISTED	NOT LISTED
0451	FENNER	NOT LISTED	NOT LISTED

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0928	FEHNER	NOT LISTED	NOT LISTED
1183	FRED HICKE	NOT LISTED	NOT LISTED
0451	FREY	NOT LISTED	NOT LISTED
1038	G. CARLSON	NOT LISTED	NOT LISTED
0944	GEORGE PALKO	NOT LISTED	NOT LISTED
0928	GIATTINA	NOT LISTED	NOT LISTED
0425	GILBERT KING	NOT LISTED	NOT LISTED
0226	GUINN DOYLE	NOT LISTED	NOT LISTED
0302	GULF COAST LABORATORIES, INC.	CONTRACTOR	NOT LISTED
0928	HENRY	NOT LISTED	NOT LISTED
0396	HOWARD DUCKMAN	NOT LISTED	NOT LISTED
0404	HOWARD DUCKMAN	NOT LISTED	NOT LISTED

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1038	J. ADAMS	NOT LISTED	NOT LISTED
1038	J. GARL	NOT LISTED	NOT LISTED
0389	JACKIE L. SHROPSHIRE	ATTORNEY AT LAW	NOT LISTED
0412	JACKIE L. SHROPSHIRE	ATTORNEY	NOT LISTED
0430	JACKIE L. SHROPSHIRE	NOT LISTED	NOT LISTED
0392	JACK E SHROPSHIRE	ATTORNEY AT LAW	NOT LISTED
0418	JACK E SHROPSHIRE	DISTRICT ATTORNEY	NOT LISTED
0944	JACK E SHROPSHIRE	NOT LISTED	NOT LISTED
0418	JAMES ALLEMAN	PROFESSOR	NOT LISTED
0392	JAMES E. ALLEMAN	PROFESSOR	NOT LISTED
0412	JAMES E. ALLEMAN	PROFESSOR	NOT LISTED
0430	JAMES E. ALLEMAN	PROFESSIONAL ENGINEER	NOT LISTED

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0442	JAMES E. ALLEMAN	PROFESSOR	NOT LISTED
0528	JAMES E. ALLEMAN	NOT LISTED	NOT LISTED
0528	JEAN-LOU CHAMEAU	NOT LISTED	NOT LISTED
1167	JIM TAYLOR	LAND POLLUTION CONTROL DIVISION	NOT LISTED
1123	JOHN A. MOORE	ASSISTANT ADMINISTRATOR FOR PESTICIDES AND TOXIC SUBSTANCES	NOT LISTED
0982	JOHN AHAGHOST	NOT LISTED	NOT LISTED
1258	JOSEPH SHYDER	CHIEF, ENFORCEMENT DIVISION	NOT LISTED
1184	JOSEPH STALLSHITH	CHIEF OF OPERATIONS BRANCH, DIVISION OF WATER POLLUTION CONTROL	NOT LISTED
1038	K. BREMER	NOT LISTED	NOT LISTED
0939	K. FENNER	NOT LISTED	NOT LISTED
1038	K. HUDSON	NOT LISTED	NOT LISTED
1038	L. JENSEN	NOT LISTED	NOT LISTED

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DOCUMENT
 CONTROL
 NUMBER

EMPLOYEE NAME

POSITION AND DIVISION

COMPANY

0451	LEE	NOT LISTED	NOT LISTED
0412	LEON SMITH	ASSISTANT PLANT SUPERINTENDENT	NOT LISTED
0389	LEON T. SMITH	ASSISTANT PLANT SUPERINTENDENT	NOT LISTED
0412	LINCOLN DONALDSON	DISTRICT ENGINEER	NOT LISTED
0343	LIONEL HALIK	LABORATORY MANAGER	NOT LISTED
0225	LISA PIERARD	NOT LISTED	NOT LISTED
1038	H. GADE	NOT LISTED	NOT LISTED
0939	H. MIKULKA	NOT LISTED	NOT LISTED
1038	H. MCCUE	NOT LISTED	NOT LISTED
0451	H. SMITH	NOT LISTED	NOT LISTED
0939	H. SMITH	NOT LISTED	NOT LISTED
1038	H.E. LYICH	NOT LISTED	NOT LISTED

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0928	MANZARDO	NOT LISTED	NOT LISTED
1183	MAX RICHARDS	SLUDGE COORDINATOR	NOT LISTED
1123	MICHAEL J. WALKER	OFFICE OF TOXIC SUBSTANCES	NOT LISTED
0425	MICHAEL SCHAEFER	NOT LISTED	NOT LISTED
1258	MIKE MULBARGER	NOT LISTED	NOT LISTED
0451	MIKULKA	NOT LISTED	NOT LISTED
1167	MOTIRYO KEAMBIROIRO	NOT LISTED	NOT LISTED
1038	P. PRANCKEVICIUS	NOT LISTED	NOT LISTED
1167	PETER WIEHEIC	DEPUTY ATTORNEY GENERAL	NOT LISTED
1038	R. HACKLEY	NOT LISTED	NOT LISTED
1123	R. LAWRENCE STEEL, JR.	U S ATTORNEY	NOT LISTED
1038	R. SCHAEFER	NOT LISTED	NOT LISTED

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
1038	R. WISNIEWSKI	NOT LISTED	NOT LISTED
1183	RAMA TALLURI	NOT LISTED	NOT LISTED
0430	RAO B. PATURI	ASSOCIATE REGIONAL COUNSEL	NOT LISTED
0302	RICHARD CLEATON	INSPECTOR	NOT LISTED
1228	RICHARD CLEATON	NOT LISTED	NOT LISTED
0944	RICHARD G. HATCHER	JUDGE	NOT LISTED
0944	RICK BROWN	NOT LISTED	NOT LISTED
0944	ROBERT BILLMAN	NOT LISTED	NOT LISTED
1038	S. CARTER-ROGERS	NOT LISTED	NOT LISTED
1226	S. WOLFE	NOT LISTED	NOT LISTED
0330	SALLY SWANSON	NOT LISTED	NOT LISTED
0944	SAM CHRISTIE	NOT LISTED	NOT LISTED

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0451	SCHAEFER	NOT LISTED	NOT LISTED
0451	SCHENKIER	NOT LISTED	NOT LISTED
0451	SCHREGARDUS	NOT LISTED	NOT LISTED
1183	SIMON	NOT LISTED	NOT LISTED
1024	STEVE WOLFE	NOT LISTED	NOT LISTED
1024	STEWART ROTH	SUPERINTENDENT	NOT LISTED
0451	SUTFIN	NOT LISTED	NOT LISTED
1024	SUZANNE GLADE	NOT LISTED	NOT LISTED
0939	T. BRANCHER	NOT LISTED	NOT LISTED
1228	T. GEISHECKER	NOT LISTED	NOT LISTED
1038	T. YEATES	NOT LISTED	NOT LISTED
0425	THOMAS BARNES	NOT LISTED	NOT LISTED

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0944	TOM BRAHSCHER	NOT LISTED	NOT LISTED
1038	V. THOMAS	NOT LISTED	NOT LISTED
0425	VALDUS ADAMKUS	NOT LISTED	NOT LISTED
1228	VINCE SOMMERS	PROJECT MANAGER	NOT LISTED
1038	WL MINER	NOT LISTED	NOT LISTED
0451	WEINERT	NOT LISTED	NOT LISTED
0928	WEINERT	NOT LISTED	NOT LISTED
0427	WILLIAM MELVILLE	NOT LISTED	NOT LISTED
1174	JIM GILLETTE	NOT LISTED	POLYTECH, INC.
1228	JIM GILLETTE	NOT LISTED	POLYTECH, INC.
0792	E.R. BLATCHLEY	CONSULTANT	PURDUE UNIVERSITY
0832	ERNEST R. BLATCHLEY	ASSOCIATE PROFESSOR	PURDUE UNIVERSITY

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0792	J-L.A. CHAMEAU	CONSULTANT	PURDUE UNIVERSITY
0792	JAMES ALLEMAN	PROFESSOR/CONSULTANT	PURDUE UNIVERSITY
0832	JAMES E. ALLEMAN	ASSOCIATE PROFESSOR	PURDUE UNIVERSITY
0832	JEAN-L. CHAMEAU	ASSOCIATE PROFESSOR	PURDUE UNIVERSITY
0290	DOUGLAS C. DIEFENTHAL	PROFESSIONAL ENGINEER, ENGINEERING MANAGER	SALISBURY ENGINEERING/ATEC ASSOCIATES, INC./GARY SANITARY DISTRICT
1024	ARTH HOWARD	BOARD OF SANITARY COMMISSIONERS	SANITARY DISTRICT OF HAMMOND
1024	DALE JACKMAN	DISTRICT MANAGER	SANITARY DISTRICT OF HAMMOND
1024	GILBERT DELANEY	BOARD OF SANITARY COMMISSIONERS	SANITARY DISTRICT OF HAMMOND
1024	JAN VERKAIX	BOARD OF SANITARY COMMISSIONERS	SANITARY DISTRICT OF HAMMOND
1024	JOSEPH ALLEGRETTI	ATTORNEY	SANITARY DISTRICT OF HAMMOND
1024	RONALD L. HUNTER	BOARD OF SANITARY COMMISSIONERS	SANITARY DISTRICT OF HAMMOND
1024	TERRANCE MEHAN	BOARD OF SANITARY COMMISSIONERS	SANITARY DISTRICT OF HAMMOND

LAF 0159976

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0451	JAMES G. RICHMOND	U.S. ATTORNEY, NORTHERN DISTRICT	STATE OF INDIANA
0939	BILL CARLSON	SITE SUPERINTENDENT	SUPERIOR CONSTRUCTION
1258	G.L. MARKS	NOT LISTED	TRACE ELEMENTS, INC.
0451	RICHARD B. STEWART	ASSISTANT ATTORNEY GENERAL, LAND AND NATURAL RESOURCES DIVISION	U.S. DEPARTMENT OF JUSTICE
0792	ROBERT OAKLEY	NOT LISTED	U.S. DEPARTMENT OF JUSTICE
0829	ROBERT OAKLEY	NOT LISTED	U.S. DEPARTMENT OF JUSTICE
1062	ALAN BAUMAN	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
1174	ALAN BAUMANN	ENFORCEMENT DIVISION	U.S. ENVIRONMENTAL PROTECTION AGENCY
1177	ALAN BAUMANN	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
1258	ALAN BAUMANN	ENFORCEMENT DIVISION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0412	ANN WEINERT	ENVIRONMENTAL ENGINEER	U.S. ENVIRONMENTAL PROTECTION AGENCY
0415	ANNE WEINERT	ENVIRONMENTAL ENGINEER	U.S. ENVIRONMENTAL PROTECTION AGENCY

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0418	ANNE WEINERT	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0427	ANNE WEINERT	COMPLIANCE UNIT 2	U.S. ENVIRONMENTAL PROTECTION AGENCY
0429	ANNE WEINERT	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0442	ANNE WEINERT	ENVIRONMENTAL ENGINEER, COMPLIANCE SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0792	ANNE WEINERT	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0832	ANNE WEINERT	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0843	ANNE WEINERT	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0979	ANNE WEINERT	COMPLIANCE SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0982	ARNOLD E. LEDER	CHIEF, COMPLIANCE TRACKING UNIT	U.S. ENVIRONMENTAL PROTECTION AGENCY
0200	ARNOLD LEDER	CHIEF, COMPLIANCE SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0231	ARNOLD LEDER	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0425	ARTHUR E. SMITH, JR.	ASSOCIATE REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0430	ARTHUR E. SMITH, JR.	ASSOCIATE REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0454	ARTHUR E. SMITH, JR.	ASSOCIATE REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0429	ARTHUR SMITH	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0935	BILL FRANZ	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0936	BILL FRANZ	OFFICE OF REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0842	BRAMSCHER	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0942	BRAMSCHER	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0942	CAYER	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0262	CH2M HILL	CONTRACTOR	U.S. ENVIRONMENTAL PROTECTION AGENCY
1174	CHARLES ORZEHOOSKIE	PLANNING DIVISION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0942	CLADE	OFFICE OF REGIONAL COUNSEL	U S. ENVIRONMENTAL PROTECTION AGENCY
1123	COURTNEY M. PRICE	ASSISTANT ADMINISTRATOR FOR ENFORCEMENT AND COMPLIANCE MONITORING	U.S. ENVIRONMENTAL PROTECTION AGENCY

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0842	DALE S. BRYSON	DEPUTY DIRECTOR, WATER DIVISION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0942	DALE S. BRYSON	ACTING DIRECTOR, WATER DIVISION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0429	DAVID PETROSKI	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0829	DEIRDRE TANAKA	ASSISTANT REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0268	DON JOSIF	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0442	DONALD R. SCHREGARDUS	CHIEF, COMPLIANCE SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0792	DONALD R. SCHREGARDUS	CHIEF, COMPLIANCE SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0832	DONALD R. SCHREGARDUS	CHIEF, COMPLIANCE SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0404	DONALD R. SHREGARDUS	CHIEF, COMPLIANCE SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0979	DONALD WILSON	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
1174	DR. SIMON	CHIEF, TOXIC WASTE	U.S. ENVIRONMENTAL PROTECTION AGENCY
0262	ECOLOGY & ENVIRONMENT, INC.	CONTRACTOR	U.S. ENVIRONMENTAL PROTECTION AGENCY

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0451	EDWARD E. REICH	ACTING ASSISTANT ADMINISTRATOR FOR ENFORCEMENT AND COMPLIANCE MONITORING	U.S. ENVIRONMENTAL PROTECTION AGENCY
0454	ELIZABETH SCHENKIER	ASSITANT REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0982	ERIC COHEN	OFFICE OF REGIONAL COUNSEL	U S. ENVIRONMENTAL PROTECTION AGENCY
1062	ERIC COHEN	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
1123	ERIC COHEN	REGIONAL ATTORNEY	U.S. ENVIRONMENTAL PROTECTION AGENCY
0942	FENNER	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
1228	FRED HICKE	FACILITIES PLANNING SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0982	GEORGE F. HALLORAN, JR.	ENVIRONMENTAL ENGINEER	U.S. ENVIRONMENTAL PROTECTION AGENCY
0832	GLADE	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0933	GLENN WITTMAN	OFFICE OF GROUND WATER	U.S. ENVIRONMENTAL PROTECTION AGENCY
0343	HOWARD DUCKMAN	ENVIRONMENTAL ENGINEER	U.S. ENVIRONMENTAL PROTECTION AGENCY
0389	HOWARD DUCKMAN	ENVIRONMENTAL ENGINEER	U.S. ENVIRONMENTAL PROTECTION AGENCY

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0392	HOWARD DUCKMAN	ENVIRONMENTAL ENGINEER	U.S. ENVIRONMENTAL PROTECTION AGENCY
0933	IRV DZIKOWSKI	CHIEF, UNIT I, PERMIT SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0427	JERRI ANNE GARL	CHIEF, OFFICE OF GROUNDWATER	U.S. ENVIRONMENTAL PROTECTION AGENCY
0832	JERRI ANNE GARL	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0935	JERRI HORST	ENVIRONMENTAL REVIEW BRANCH	U.S. ENVIRONMENTAL PROTECTION AGENCY
0935	JUDY BECK	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0936	JUDY BECK	OFFICE OF REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0942	KELLEY	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0935	KEN FENNER	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0936	KEN FENNER	OFFICE OF REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0842	KENNETH A. FENNER	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0933	L.J. SHEPARD	UNIT II, PERMITS SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0936	LARRY KYTE	OFFICE OF REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0842	MANZARDO	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0429	MARC TUCHMAN	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0937	MARTHA ANNE WEINERT	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0430	MARTHA ANNE WEINERT	ENVIRONMENTAL ENGINEER	U.S. ENVIRONMENTAL PROTECTION AGENCY
0454	MARTHA ANNE WEINERT	ENVIRONMENTAL ENGINEER	U.S. ENVIRONMENTAL PROTECTION AGENCY
0935	MARY CANAVAN	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0936	MARY CANAVAN	OFFICE OF REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0429	MICHAEL MIKULKA	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0842	MIKULKA	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0942	MIKULKA	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0451	REBBECA HANMER	ACTING ASSISTANT ADMINISTRATOR FOR WATER	U.S. ENVIRONMENTAL PROTECTION AGENCY

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0200	RICHARD SHANDROSS	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0226	RICHARD SHANDROSS	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0227	RICHARD SHANDROSS	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0231	RICHARD SHANDROSS	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0429	ROBERT D. TOLPA	GRAND CALUMET COORDINATOR	U.S. ENVIRONMENTAL PROTECTION AGENCY
0262	SALISBURY ENGINEERING, INC.	CONTRACTOR	U.S. ENVIRONMENTAL PROTECTION AGENCY
0842	SCHREGARDUS	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0979	SHELDON S. SIMON	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0416	SHELDON SIMON	ENVIRONMENTAL SCIENTIST, PCB CONTROL SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0429	SHELDON SIMON	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0832	SHELDON SIMON	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
1123	SHELDON SIMON	REGIONAL ENGINEER	U.S. ENVIRONMENTAL PROTECTION AGENCY

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DOCUMENT CONTROL NUMBER	EMPLOYEE NAME	POSITION AND DIVISION	COMPANY
0396	STEPHEN H. JOHNSON	GEOLOGIST, PCB CONTROL SECTION	U.S. ENVIRONMENTAL PROTECTION AGENCY
0939	SUZANNE GLADE	ASSISTANT REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0944	SUZANNE GLADE	ASSISTANT REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY
0832	TANAKA	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0942	THOMAS BRAMSCHER	NOT LISTED, WATER DIVISION	U.S. ENVIRONMENTAL PROTECTION AGENCY
1024	THOMAS L. BRAMSCHER	STATE PROGRAM MANAGEMENT, UNIT 11	U.S. ENVIRONMENTAL PROTECTION AGENCY
0948	TIM HENRY	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0842	TODD A. CAYER	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0416	TODD CAYER	CHIEF, WATER COMPLIANCE BRANCH	U.S. ENVIRONMENTAL PROTECTION AGENCY
0429	TODD CAYER	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0935	TOM GLATZEL	NOT LISTED	U.S. ENVIRONMENTAL PROTECTION AGENCY
0936	TOM GLATZEL	OFFICE OF REGIONAL COUNSEL	U.S. ENVIRONMENTAL PROTECTION AGENCY

ALL INFORMATION ABOVE WAS TAKEN VERBATIM FROM THE COMPILED DOCUMENTS

ENFORCEMENT CONFIDENTIAL

LAF 0159985

APPENDIX G

PRPBASE MAILING ADDRESS DATABASE

PRPBASE
RALSTON ST. LAGOON SITE
(Mailing Address Report #3)

ADDRESS AND TELEPHONE NUMBERS

Record No.: 1

1. Code : AMOCO
2. Name : AMOCO OIL COMPANY - WHITING REFINERY
3. Law Firm :
4. Address 1 : A/M/A AMERICAN/STANDARD OIL
5. Address 2 : 2815 INDIANAPOLIS ROAD
6. City : WHITING
7. State : IN
8. Zip : 46394
9. Telephone : (219) 473-7700
10. Contact :
11. Addr. Type: 1

Record No.: 3

1. Code : HAMOND
2. Name : CITY OF HAMMOND, INDIANA
3. Law Firm :
4. Address 1 : C/O HAMMOND SANITARY DISTRICT
5. Address 2 : 5143 CALUMET AVENUE
6. City : HAMMOND
7. State : IN
8. Zip : 46320
9. Telephone : (219) 853-6413
10. Contact :
11. Addr. Type: 1

Record No.: 5

1. Code : DUPONT
2. Name : E.I. DUPONT DE NEMOURS & COMPANY
3. Law Firm :
4. Address 1 : C/O C.T. CORPORATION
5. Address 2 : 1 NORTH CAPITAL
6. City : INDIANAPOLIS
7. State : IN
8. Zip : 46402
9. Telephone : (317) 398-2040
10. Contact :
11. Addr. Type: 1

Record No.: 7

1. Code : AIRPRT
2. Name : GARY REGIONAL AIRPORT
3. Law firm :
4. Address 1 : 6001 INDUSTRIAL HIGHWAY
5. Address 2 :
6. City : GARY
7. State : IN
8. Zip : 46143
9. Telephone : (219) 949-9772
10. Contact :
11. Addr. Type: 1

Record No.: 2

1. Code : GARY
2. Name : CITY OF GARY, INDIANA
3. Law Firm :
4. Address 1 : 401 BROADWAY
5. Address 2 :
6. City : GARY
7. State : IN
8. Zip : 46402
9. Telephone : (219) 881-1300
10. Contact :
11. Addr. Type: 1

Record No.: 4

1. Code : CCC
2. Name : CONSERVATION CHEMICAL COMPANY
3. Law Firm :
4. Address 1 : NO DATA
5. Address 2 :
6. City :
7. State :
8. Zip :
9. Telephone :
10. Contact :
11. Addr. Type: 1

Record No.: 6

1. Code : ECI
2. Name : ENERGY COOPERATIVE, INC.
3. Law Firm :
4. Address 1 : 3500 INDIANAPOLIS AVE.
5. Address 2 :
6. City : EAST CHICAGO
7. State : IN
8. Zip : 46312
9. Telephone : (219) 397-0924
10. Contact : BILL CARTER, ACTING MANAGER
11. Addr. Type: 1

Record No.: 8

1. Code : HOOSER
2. Name : HOOSIER STATE TRUST PROPERTY
3. Law Firm :
4. Address 1 : NO DATA
5. Address 2 :
6. City :
7. State :
8. Zip :
9. Telephone :
10. Contact :
11. Addr. Type: 1

PRPBASE
RALSTON ST. LAGOON SITE
(Mailing Address Report #3)

ADDRESS AND TELEPHONE NUMBERS

Record No.: 9

1. Code : LDKCO
2. Name : LAND AND LAKES COMPANY
3. Law Firm :
4. Address 1 : 123 N. NORTHWEST HIGHWAY
5. Address 2 : P.O. BOX 778
6. City : PARK RIDGE
7. State : IL
8. Zip : 60068-0778
9. Telephone : (708) 825-5000
10. Contact :
11. Addr. Type:

Record No.: 11

1. Code : MDCOI
2. Name : MDCOI I
3. Law Firm :
4. Address 1 : NO DATA
5. Address 2 :
6. City : GARY
7. State :
8. Zip :
9. Telephone :
10. Contact :
11. Addr. Type:

Record No.: 13

1. Code : INSTAT
2. Name : STATE OF INDIANA TOLL ROAD COMMISSION
3. Law Firm :
4. Address 1 : C/O INDIANA DEPT. OF TRANS.
5. Address 2 : 500 N. SENATE AVE.
6. City : INDIANAPOLIS
7. State : IN
8. Zip : 46204
9. Telephone : (317) 232-5533
10. Contact :
11. Addr. Type:

Record No.: 15

1. Code : STEEL
2. Name : UNITED STATES STEEL CORPORATION
3. Law Firm :
4. Address 1 : C/O PRENTICE HALL
5. Address 2 : 500 CIRCLE TOWER BLDG.
6. City : INDIANAPOLIS
7. State : IN
8. Zip : 46204
9. Telephone : (317) 926-1324
10. Contact :
11. Addr. Type:

Record No.: 10

1. Code : LTV
2. Name : LTV STEEL CO., INC.
3. Law Firm :
4. Address 1 : C/O C.T. CORPORATION
5. Address 2 : 1 NORTH CAPITAL AVE.
6. City : INDIANAPOLIS
7. State : IN
8. Zip : 46204
9. Telephone : (317) 391-2000
10. Contact :
11. Addr. Type: 1

Record No.: 12

1. Code : NINTH
2. Name : NINTH AVENUE DUMP
3. Law Firm :
4. Address 1 : NO DATA
5. Address 2 :
6. City :
7. State :
8. Zip :
9. Telephone :
10. Contact :
11. Addr. Type: 1

Record No.: 14

1. Code : UNBLDG
2. Name : UNION BUILDING & CONSTRUCTION CORP.
3. Law Firm :
4. Address 1 : NO DATA
5. Address 2 :
6. City :
7. State :
8. Zip :
9. Telephone :
10. Contact :
11. Addr. Type: 1

Record No.: 16

1. Code : GARY
2. Name : GARY SANITARY DISTRICT
3. Law Firm :
4. Address 1 : 1305 W. 11TH AVE.
5. Address 2 :
6. City : GARY
7. State : IN
8. Zip : 46402
9. Telephone : (219) 883-3517
10. Contact :
11. Addr. Type: 2

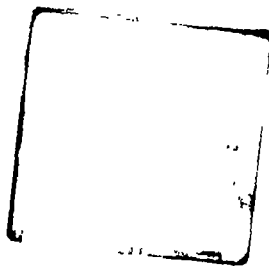
PRPBASE
RALSTON ST. LAGOON SITE
(Mailing Address Report #3)

ADDRESS AND TELEPHONE NUMBERS

Record No.: 17
1. Code : STEEL
2. Name : UNITED STATES STEEL CORPORATION
3. Law Firm :
4. Address 1 : M/K/A USX CORP.
5. Address 2 : 600 GRANT ST.
6. City : PITTSBURGH
7. State : PA
8. Zip : 15219-4776
9. Telephone : (412) 433-1121
10. Contact :
11. Addr. Type: 2

LAF 0159991

U.S. Steel (USX)



U.S. Steel

(USX)

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Permission to measure selected wells
for the northwestern Indiana synoptic water-level study

We hereby authorize and grant permission to the U.S. Geological Survey (USGS), the U.S. Environmental Protection Agency (USEPA) or its representatives to enter our facility for the purpose of measuring water levels in selected wells, and to perform additional work limited to verification of well locations and measuring-point altitudes by use of surveying equipment including global positioning systems (GPS). We understand that the water levels will be measured on or about June 22-24, 1992, and that the additional work will be done during the summer of 1992, on a date agreed upon by the parties. The USGS will notify us through the established principal contact before sending representatives to our facility. All data collected at our facility will be made available to us. The data will be stored in USGS and USEPA computer storage files and will become public information at that time. The USGS, USEPA, and its representatives will comply with all safety regulations and other special requirements at our facility.

Glen Rosenow 6/11/92
Signature Date

MGR. ENVIRONMENTAL
Name and title

U.S. STEEL / GARY WORKS
Facility name

Principal contact at your facility:

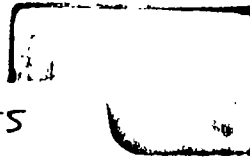
Name GLEN ROSENOW
Address ONE NORTH BROADWAY
GARY, IN, 46402
Phone (219) 888-5498

888-4452

3583

711-900-
Broadway
Gary, Ind.

Data Sheets



Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

(1)

Facility Name: USX
Address: GARY WORKS Well ID: 238
Date: 6/23/92 Time arrived at facility: _____
Weather Condition: See AG

Facility Representatives: Affiliation: Phone Number:
ROSENOW USX _____

USEPA/USGS Representatives: Affiliation: Role:
WATSON _____
WELPINI _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC SS other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TOC
Altitude of Measuring Point: _____
Stick-up of well: _____ ft

No Cap on Inner Casing

INFORMATION COLLECTED:

HNU ~~OR~~ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 9:50 AM

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading <u>23.99</u> ft	<u>1.81</u> ft	<u>22.18</u> ft	
Second Reading <u>24.49</u>	<u>2.31</u>	<u>22.18</u>	
Third Reading _____	_____	_____	
Fourth Reading _____	_____	_____	
Fifth Reading _____	_____	_____	
Sixth Reading _____	_____	_____	

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

LAF 0165307

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

(2)

Facility Name: USX -

Address: GARY WORKS Well ID: A-6

Date: 6/23 Time arrived at facility: 7:20 AM

Weather Condition: P-Cldy; After rain (night); Cool, sl. brz

Facility Representatives: Affiliation: Phone Number:
GLEN ROSENOW USX 219-888-3369

USEPA/USGS Representatives: Affiliation: Role:
WATSON USGS
KOELPIN IDEM

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC SS other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TOC
Altitude of Measuring Point: _____
Stick-up of well: 1.22 ft

INFORMATION COLLECTED:

~~HNU~~ ~~OR~~ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 9:47 AM

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>5.99</u> ft	<u>1.27</u> ft	<u>4.72</u> ft
Second Reading	<u>6.49</u>	<u>1.77</u>	<u>4.72</u>
Third Reading			
Fourth Reading			
Fifth Reading			
Sixth Reading			

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: _____ Well ID: HUT2-10
Date: 6/28/92 Time arrived at facility: _____
Weather Condition: cldy, cool breezy

Facility Representatives: GLEN ROSENOW Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: WATSON Affiliation: _____ Role: _____
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC SS other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TLC
Altitude of Measuring Point: 591.25
Stick-up of well: 1.18 ft -0.03 TLC TOL

INFORMATION COLLECTED:

~~HNU~~ or ~~OVA~~ Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 8:15

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading <u>6.49</u> ft	<u>1.85</u> ft	<u>4.64</u> ft	
Second Reading <u>6.49</u>	<u>2.35</u>	<u>4.64</u>	
Third Reading _____	_____	_____	
Fourth Reading _____	_____	_____	
Fifth Reading _____	_____	_____	
Sixth Reading _____	_____	_____	

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: HWT14-1

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

ROSENW

USEPA/USGS Representatives: Affiliation: Role:

WATSON
KEELIN

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC SS other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TIC
Altitude of Measuring Point: _____
Stick-up of well: 2.06 ft TCC
- 0.03

INFORMATION COLLECTED:

~~HNU~~ or OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 2:27 AM

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>9.99</u> ft	<u>1.46</u> ft	<u>8.53</u> ft
Second Reading	<u>10.79</u>	<u>1.96</u>	<u>8.53</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: F-6

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

ROSENDA _____

USEPA/USGS Representatives: Affiliation: Role:

WATSON
KCELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TIC

Altitude of Measuring Point: _____

Stick-up of well: 1.69 ft TOC

-0.09 TIC

INFORMATION COLLECTED:

HNU or OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 8:43

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

	22.49 ft	1.40 ft	22.59 ft - BAD
First Reading	22.49	1.40	22.59
Second Reading	23.49	1.83	22.66
Third Reading	24.49	2.33	22.66
Fourth Reading	24.49		
Fifth Reading			
Sixth Reading			

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

4

Facility Name: LCSX

Address: _____ Well ID: HW02-6

Date: 6/23 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TLC

Altitude of Measuring Point: 609.22

Stick-up of well: 1.98 ft North TOC

-.18' to top of inner csq

INFORMATION COLLECTED:

HNu (or) OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 9:40

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

	24.99 ft	1.16 ft	23.83 ft
First Reading	<u>24.99</u>	<u>1.16</u>	<u>23.83</u>
Second Reading	<u>25.49</u>	<u>1.66</u>	<u>23.83</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES (NO) Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

LAF 0165312

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

5

Facility Name: USX

Address: GARY WORKS Well ID: 42

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: clgy. Cool, Windy

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:

WATSON
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC SS other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TOC

Altitude of Measuring Point: _____

Stick-up of well: 1.87 ft

INFORMATION COLLECTED:

HNU X OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 9:50

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

First Reading 14.99 ft _____ ft _____ ft

Second Reading 14.99 _____ ft _____ ft

Third Reading 21.99 4.01 17.98

Fourth Reading 18.99 1.01 17.98

Fifth Reading _____ _____

Sixth Reading _____ _____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

LAF 0165313

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: GARY Well ID: HWD-2-7
Date: 6/23/92 Time arrived at facility: _____
Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:
LOEIPIN
WATSON _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: HVC ss other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TIC
Altitude of Measuring Point: 600.76
Stick-up of well: 2.07 ft TOC
- .14 TIC

INFORMATION COLLECTED:

HNU ~~or~~ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 10:05 AM

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>12.99</u> ft	<u>3.74</u> ft	<u>9.25</u> ft
Second Reading	<u>10.99</u>	<u>1.74</u>	<u>9.25</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: GARY Well ID: WEST LAGOON USGS MEASURING POINT
Date: 6/23/92 Time arrived at facility: ~ 100 WEST OF BAKER'S GAGE
Weather Condition: cldy cool brzy

Facility Representatives: ROSENOW Affiliation: USX Phone Number: _____

USEPA/USGS Representatives: WATSON Affiliation: USGS Role: _____
KOELPIN IDEM _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC SS other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TOP OF DRIVEN ANGLE IRON
Altitude of Measuring Point: _____
Stick-up of well: _____ ft

INFORMATION COLLECTED:

HNU ~~or~~ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 10:15

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>0.48</u> ft	_____ ft	_____ ft
Second Reading	_____	_____	_____
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: _____ Well ID: WEST LAGOON BAKER
MEASURING POINT
Date: 6/23/92 Time arrived at facility: "GRAND CAL HDWTR"
Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:
KOELT W IDEM
WATSON USGS

WELL DESCRIPTION:

Was Well Position verified on Map? YES ☒ NO
Does Well have an outer casing? YES ☒ NO
Was Well Locked? YES ☒ NO Who has key to well: _____
Does Well have concrete pad? YES ☒ NO
Type of Inner Well Casing Material: PVC SS other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TOP OF ORANGE TIP OF BROKEN ROUND
Altitude of Measuring Point: PIECE OF CONCRETE
Stick-up of well: _____ ft QUESTIONABLE POINT

INFORMATION COLLECTED:

HNU ☒ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 10:20 AM

Depth to Water: Holding Point: Wet Mark at: Depth to Water:
First Reading 2.50 ± .50' _____ ft _____ ft
Second Reading _____ ft _____ ft
Third Reading _____ ft _____ ft
Fourth Reading _____ ft _____ ft
Fifth Reading _____ ft _____ ft
Sixth Reading _____ ft _____ ft

OIL INTERFACE:

Was Oil Found? YES ☒ NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? ☒ YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: P-1

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:

WATSON USGS
LOELFIN IDEM

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TIC

Altitude of Measuring Point: 603.10

Stick-up of well: 2.35 ft TOC

INFORMATION COLLECTED:

HNu ~~OR~~ OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 10:45

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

	ft	ft	ft
First Reading	<u>14.99</u>		
Second Reading	<u>17.49</u>	<u>2.05</u>	<u>15.44</u>
Third Reading	<u>17.99</u>	<u>2.55</u>	<u>15.44</u>
Fourth Reading			
Fifth Reading			
Sixth Reading			

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

LAF 0165317

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: P-2

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

ROSENOW USX _____

USEPA/USGS Representatives: Affiliation: Role:

WATSON USGS _____
KOELPIN IDEM _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC ss other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TIC
Altitude of Measuring Point: 616.386
Stick-up of well: 1.91 ft TOC
-0.22

INFORMATION COLLECTED:

HNu ✓ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: _____

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

	Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>30.99</u> ft	<u>1.56</u> ft	<u>29.43</u> ft	
Second Reading	<u>31.49</u>	<u>2.06</u>	<u>29.43</u>	
Third Reading	_____	_____	_____	
Fourth Reading	_____	_____	_____	
Fifth Reading	_____	_____	_____	
Sixth Reading	_____	_____	_____	

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: P-3

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

ROSENCO USX

USEPA/USGS Representatives: Affiliation: Role:

WATSON USGS
KOELPIN DEM

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TIC

Altitude of Measuring Point: 616.48

Stick-up of well: 1.38 ft TOC

-0.20 TIC

INFORMATION COLLECTED:

HNU ~~or~~ OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 11:05

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

	28.99 ft	0.56 ft	28.43 ft
First Reading	<u>28.99</u>	<u>0.56</u>	<u>28.43</u>
Second Reading	<u>29.49</u>	<u>1.06</u>	<u>28.43</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: GARY Well ID: A-3 ^{N side} of River
Date: 6/23 Time arrived at facility: _____
Weather Condition: P. Sunny Cool Breezy

Facility Representatives: Affiliation: Phone Number:
ROSENOLD USX _____

USEPA/USGS Representatives: Affiliation: Role:
WATSON _____
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NEW IMPROVED RES.
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC ss other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TOC
Altitude of Measuring Point: _____
Stick-up of well: 0.99 ft TOC

INFORMATION COLLECTED:

HNU OF OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 11:40 AM

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading <u>2.99</u> ft	<u>0.40</u> ft	<u>2.59</u> ft	
Second Reading <u>3.49</u>	<u>0.91</u>	<u>2.58</u>	
Third Reading _____	_____	_____	
Fourth Reading _____	_____	_____	
Fifth Reading _____	_____	_____	
Sixth Reading _____	_____	_____	

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: A-1

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: P. Cldy, Cool, breezy

Facility Representatives: Affiliation: Phone Number:

ROSENOW USX _____

USEPA/USGS Representatives: Affiliation: Role:

WATSON USGS _____
ROELF/AJ IDEM _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC SS other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TOC
Altitude of Measuring Point: _____
Stick-up of well: 1.65 ft TOC

INFORMATION COLLECTED:

HNU ~~or~~ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 11:52

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

	20.99 ft	1.57 ft	19.42 ft
First Reading	20.99	1.57	19.42
Second Reading	21.49	2.00	19.49 - BAD
Third Reading	20.99	1.56	19.43
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: A-5

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives:	Affiliation:	Phone Number:
<u>ROSENOW</u>	<u>USX</u>	_____
_____	_____	_____
_____	_____	_____

USEPA/USGS Representatives:	Affiliation:	Role:
<u>WATSON</u>	_____	_____
<u>FORLEMAN</u>	_____	_____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC SS other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TOC
Altitude of Measuring Point: _____
Stick-up of well: 2.69 ft TOC

INFORMATION COLLECTED:

HNU OR OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 12:00

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>18.49</u> ft	<u>1.50</u> ft	<u>16.99</u> ft
Second Reading	<u>18.99</u>	<u>2.00</u>	<u>16.99</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

LAF 0165322

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

3

Facility Name: USX

Address: _____ Well ID: HU02-5

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: see AG

Facility Representatives: Affiliation: Phone Number:

ROSENOW USX _____

USEPA/USGS Representatives: Affiliation: Role:

WATSON USGS _____
KOELPIN IDEM _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: Top of Inner Casing

Altitude of Measuring Point: 622.623, 810

Stick-up of well: 1.29 ft N Side Top Outer Casing
- 0.12

INFORMATION COLLECTED:

~~HNU~~ ~~or~~ ~~OVA~~ Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 9:25 AM

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

	41.99 ft	2.64 ft	39.35 ft
First Reading	<u>41.99</u>	<u>2.64</u>	<u>39.35</u>
Second Reading	<u>40.99</u>	<u>1.64</u>	<u>39.35</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

LAF 0165323

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: A11-S

Date: 6/23 Time arrived at facility: _____

Weather Condition: P.Cldy Cool Breezy

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

ROSENW

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____

WATSON
KEELIN

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: _____

Altitude of Measuring Point: _____

Stick-up of well: 3.82 ft OUTSIDE
WATER SURF

INFORMATION COLLECTED:

HNu or OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 12:10

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

First Reading 5.49 ft 1.67 ft 3.82 ft

Second Reading 6.49 ft 2.66 ft 3.83 ft

Third Reading _____ ft _____ ft _____ ft

Fourth Reading _____ ft _____ ft _____ ft

Fifth Reading _____ ft _____ ft _____ ft

Sixth Reading _____ ft _____ ft _____ ft

OIL SHEEN ; POSS FROM #4 OUTFALL

OIL INTERFACE: _____

Was Oil Found? yes no Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

LAF 0165324

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: _____ Well ID: A10
Date: 6/23/92 Time arrived at facility: _____
Weather Condition: _____

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____
WATSON USES
KOELIN IDEM

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC SS other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TOC
Altitude of Measuring Point: _____
Stick-up of well: 1.29 ft TOC

INFORMATION COLLECTED:

~~HNU~~ or OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 12:05

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>6.99</u> ft	<u>1.50</u> ft	<u>6.49</u> ft
Second Reading	<u>7.49</u>	<u>2.00</u>	<u>5.49</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX ; South of GCR, E of GLI

Address: _____ Well ID: A-4

Date: 6/23 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

ROSENOW _____

USEPA/USGS Representatives: Affiliation: Role:

WATSON _____
KEELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC SS other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TOC

Altitude of Measuring Point: _____

Stick-up of well: 3.03 ft TOC

INFORMATION COLLECTED:

HNU X OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 12:25

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

	Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>17.99</u> ft		<u>0.84</u> ft	<u>17.15</u> ft
Second Reading	<u>18.79</u>		<u>1.34</u>	<u>17.15</u>
Third Reading	_____		_____	_____
Fourth Reading	_____		_____	_____
Fifth Reading	_____		_____	_____
Sixth Reading	_____		_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: GARY HARBER
5-14

Date: 6/23 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

ROSENOW _____

USEPA/USGS Representatives: Affiliation: Role:

WATSON _____
KOELMAN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO Surface water

Does Well have an outer casing? YES NO Pipe

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: _____

Altitude of Measuring Point: _____

Stick-up of well: _____ ft

INFORMATION COLLECTED:

HNu X OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: _____

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

	9.99 ft	.86 ft	9.13 ft
First Reading			
Second Reading			
Third Reading			
Fourth Reading			
Fifth Reading			
Sixth Reading			

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

LAF 0165327

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: HWTR-13-04

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

ROSENOW _____

USEPA/USGS Representatives: Affiliation: Role:

WATSON
KORPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: USX hinge broken

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TOC = TIC

Altitude of Measuring Point: 603.75

Stick-up of well: 1.64 ft TOC

INFORMATION COLLECTED:

HNU X OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 1:37

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

First Reading	<u>22.99</u> ft	<u>1.07</u> ft	<u>21.92</u> ft
Second Reading	<u>23.99</u>	<u>2.07</u>	<u>21.92</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: _____ Well ID: P4
Date: 6/23/92 Time arrived at facility: _____
Weather Condition: P Sunny, Cool 71°, Breezy

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____
WATSON
KOELPIN

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC ss other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TIC
Altitude of Measuring Point: 603.85
Stick-up of well: 1.78 ft TIC
-0.80 TIC

INFORMATION COLLECTED:

HNU ~~or~~ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 1:43

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>22.99</u> ft	<u>1.38</u> ft	<u>21.61</u> ft
Second Reading	<u>23.49</u>	<u>1.88</u>	<u>21.61</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

LAF 0165329

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: B-2

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:

WATSON
KELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC SS other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: _____

Altitude of Measuring Point: _____

Stick-up of well: 3.07 ft

INFORMATION COLLECTED:

HNu or OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 11:51

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

First Reading 36.99 ft 6.26 ft 30.73 ft

Second Reading 37.49 ft 6.76 ft 30.73 ft

Third Reading _____ ft _____ ft _____ ft

Fourth Reading _____ ft _____ ft _____ ft

Fifth Reading _____ ft _____ ft _____ ft

Sixth Reading _____ ft _____ ft _____ ft

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: HWT2-09

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____

WATSON
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: 77C

Altitude of Measuring Point: 609.36

Stick-up of well: 1.35 ft 70C
0.11 TIC

INFORMATION COLLECTED:

HNU ~~OF~~ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 1:57

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

	30.99 ft	1.70 ft	29.29 ft
First Reading	<u>30.99</u>	<u>1.70</u>	<u>29.29</u>
Second Reading	<u>31.49</u>	<u>2.20</u>	<u>29.29</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: HWT2-08

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____

WATSON
KELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TIC

Altitude of Measuring Point: 589.68

Stick-up of well: 1.50 ft TIC

_____ TIC

INFORMATION COLLECTED:

HNU or OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 2:07

Depth to Water: _____ Holding Point: _____ Wet Mark at: _____ Depth to Water: _____

	8.99 ft	1.14 ft	7.25 ft BAD
First Reading	<u>8.99</u>	<u>1.14</u>	<u>7.25</u>
Second Reading	<u>9.49</u>	<u>1.55</u>	<u>7.99</u>
Third Reading	<u>8.99</u>	<u>1.06</u>	<u>7.73</u>
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____

Well ID: HWDS-05-R NOTE
THIS
IS NOT
#405-05

Date: 6/23/92

Time arrived at facility: _____

Weather Condition: cloudy cool breezy

Facility Representatives: _____

Affiliation: _____

Phone Number: _____

USEPA/USGS Representatives: _____

Affiliation: _____

Role: _____

WATSON
KELAIN

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO

Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch

other: _____

Location of Measuring Point: TIC

Altitude of Measuring Point: _____

Stick-up of well: 2.33 ft TOC

0.34 TIC

INFORMATION COLLECTED:

HNu, or ~~OVA~~

Initial Reading: _____ ppm

Time: _____

Final Reading: _____ ppm

Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 2:30

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

First Reading 14.99 ft 2.02 ft 12.97 ft

Second Reading 15.49 2.52 12.97

Third Reading _____

Fourth Reading _____

Fifth Reading _____

Sixth Reading _____

OIL INTERFACE:

Was Oil Found? YES NO

Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

LAF 0165333

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: HWD5-04

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: cldy, cool breezy

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____

WATSON
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TK

Altitude of Measuring Point: 544.08

Stick-up of well: 2.10 ft TK

-1.01 TK

INFORMATION COLLECTED:

~~HNU~~ or ~~OVA~~ Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 2:40

Depth to Water: _____ Holding Point: _____ Wet Mark at: _____ Depth to Water: _____

	11.99 ft	1.17 ft	10.82 ft
First Reading	<u>11.99</u>	<u>1.17</u>	<u>10.82</u>
Second Reading	<u>12.49</u>	<u>1.67</u>	<u>10.82</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USK NORTHWEST POND GAGE ON BAKER MAP

Address: _____ Well ID: STAFF GAGE @ FISHING POND

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:

WATSON
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: _____

Altitude of Measuring Point: _____

Stick-up of well: _____ ft

SQUARED EDGE ON
CELL WALL SHEET STEEL
— GOOD POINT —

INFORMATION COLLECTED:

~~HNU~~ or ~~OVA~~ Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 2:50

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

First Reading _____ ft 4.51 ft _____ ft
Second Reading _____
Third Reading _____
Fourth Reading _____
Fifth Reading _____
Sixth Reading _____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: P-16

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:

WATSON
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC SS other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TIC

Altitude of Measuring Point: 547.09

Stick-up of well: 1.79 ft TIC

INFORMATION COLLECTED:

~~HNU~~ or ~~OVA~~ Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 3:07

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

First Reading 14.49 ft .60 ft 13.89 ft

Second Reading 14.99 ft 1.10 ft 14.89 ft

Third Reading _____

Fourth Reading _____

Fifth Reading _____

Sixth Reading _____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: UST
Address: _____ Well ID: P-14
Date: 6/23/92 Time arrived at facility: _____
Weather Condition: cldy, cool, breezy

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: WATSON Affiliation: _____ Role: _____
KOELIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC ss other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: T/C
Altitude of Measuring Point: 592.23
Stick-up of well: 1.88 ft T/C
- .09 T/C

INFORMATION COLLECTED:

HNU ~~OF~~ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 3:15

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading <u>7.99</u> ft	<u>1.25</u> ft	<u>6.74</u> ft	
Second Reading <u>8.49</u>	<u>1.75</u>	<u>6.74</u>	
Third Reading _____	_____	_____	
Fourth Reading _____	_____	_____	
Fifth Reading _____	_____	_____	
Sixth Reading _____	_____	_____	

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: _____ Well ID: HWT2-02
Date: 6/23/92 Time arrived at facility: _____
Weather Condition: _____

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____
WATSON
KOELPIN

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC ss other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TIC
Altitude of Measuring Point: 603.81
Stick-up of well: 1.88 ft TIC
-1.68 TIC

INFORMATION COLLECTED:

~~HNU~~ ~~OF~~ ~~OVA~~ Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 3:25

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>21.49</u> ft	<u>1.43</u> ft	<u>20.06</u> ft
Second Reading	<u>21.99</u>	<u>1.92</u>	<u>20.07</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: HWT2-04

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____

WATSON
KUEPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TIC

Altitude of Measuring Point: 606.80

Stick-up of well: 3.30 ft 1.91 TCC

-0.17 TIC

INFORMATION COLLECTED:

~~HNU OF OVA~~ Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 3:30

Depth to Water: _____ Holding Point: _____ Wet Mark at: _____ Depth to Water: _____

First Reading 24.99 ft 1.40 ft 24.59 ft

Second Reading 25.49 ft 1.90 ft 23.59 ft

Third Reading _____

Fourth Reading _____

Fifth Reading _____

Sixth Reading _____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: ~~P-7~~ HWT2-12S

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:

WATSON
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? ☒ YES ☐ NO

Does Well have an outer casing? YES ☐ NO ☐

Was Well Locked? YES ☐ NO ☐ Who has key to well: _____

Does Well have concrete pad? YES ☐ NO ☐

Type of Inner Well Casing Material: PVC ☐ SS ☐ other: _____

Diameter of Well: 2-inch ☐ 4-inch ☐ other: _____

Location of Measuring Point: _____

Altitude of Measuring Point: _____

Stick-up of well: 1.28 ft TCC

+ .06 TIC

INFORMATION COLLECTED:

HNU or ~~OVA~~ Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 3:47

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

First Reading 18.99 ft 1.74 ft 17.25 ft

Second Reading 19.79 ft 2.24 ft 17.25 ft

Third Reading _____ ft _____ ft _____ ft

Fourth Reading _____ ft _____ ft _____ ft

Fifth Reading _____ ft _____ ft _____ ft

Sixth Reading _____ ft _____ ft _____ ft

OIL INTERFACE:

Was Oil Found? YES ☐ NO ☒ Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES ☐ NO ☐

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: _____ Well ID: HWT2-115
Date: 6/23/92 Time arrived at facility: _____
Weather Condition: cloudy Cool breezy

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____
WATSON
KCELPIN

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC ss other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TIC
Altitude of Measuring Point: _____
Stick-up of well: .50 ft TIC
+ .42 TIC

Did HWT2-115 instead
of P9 because P9
DESTROYED

INFORMATION COLLECTED:

~~HNU~~ or ~~OVA~~ Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 3:55

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>22.49</u> ft	<u>1.46</u> ft	<u>21.03</u> ft
Second Reading	<u>22.99</u>	<u>1.96</u>	<u>21.03</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: 1 ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: _____ Well ID: HWT13-01
Date: 6/23/92 Time arrived at facility: HWT13-01
Weather Condition: _____

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: WATSON Affiliation: _____ Role: _____
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC ss other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TIC
Altitude of Measuring Point: 602.57
Stick-up of well: 1.73 ft TCC
+ 0.03

WELL IS DAMAGED
N 5° LEAN TO SOUTH
w/ PAD LEANING ALSO
LOCK BECKEN

INFORMATION COLLECTED:

~~HNU~~ or ~~OVA~~ Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 4:05

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading <u>18.49</u> ft	<u>1.57</u> ft	<u>16.92</u> ft	
Second Reading <u>18.99</u>	<u>2.07</u>	<u>16.92</u>	
Third Reading _____	_____	_____	
Fourth Reading _____	_____	_____	
Fifth Reading _____	_____	_____	
Sixth Reading _____	_____	_____	

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: P-12

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: P Sunny Cool, Breezy

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____

WATSON
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TIC

Altitude of Measuring Point: 594.80

Stick-up of well: 1.54 ft TIC

-0.10 TIC

INFORMATION COLLECTED:

HNU ~~or~~ OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 4:20 PM

Depth to Water: _____ Holding Point: _____ Wet Mark at: _____ Depth to Water: _____

First Reading 9.49 ft 0.30 ft 9.69 ft

Second Reading 10.49 .79 9.70

Third Reading _____

Fourth Reading _____

Fifth Reading _____

Sixth Reading _____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX
Address: _____ Well ID: HWT14-04
Date: 6/23/92 Time arrived at facility: _____
Weather Condition: P Sunny, Cool Breezy

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____
WATSON
KOELPIN

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO
Does Well have an outer casing? YES NO
Was Well Locked? YES NO Who has key to well: _____
Does Well have concrete pad? YES NO
Type of Inner Well Casing Material: PVC ss other: _____
Diameter of Well: 2-inch 4-inch other: _____
Location of Measuring Point: TIC
Altitude of Measuring Point: _____
Stick-up of well: 1.85 ft TIC -1.55

INFORMATION COLLECTED:

HNU ~~or~~ OVA Initial Reading: _____ ppm Time: _____
Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).
Time water level taken: 4:37

Depth to Water:	Holding Point:	Wet Mark at:	Depth to Water:
First Reading	<u>5.99</u> ft	<u>0.24</u> ft	<u>5.75</u> ft
Second Reading	<u>6.49</u>	<u>.75</u>	<u>5.77</u>
Third Reading	_____	_____	_____
Fourth Reading	_____	_____	_____
Fifth Reading	_____	_____	_____
Sixth Reading	_____	_____	_____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____
Depth to Oil: _____ ft Depth to Water: _____ ft
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO
Fate of Decontamination Materials: _____
Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____ Well ID: P-11

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: P cldy, cool breezy

Facility Representatives: _____ Affiliation: _____ Phone Number: _____

USEPA/USGS Representatives: _____ Affiliation: _____ Role: _____

WATSON
KOELPIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TK

Altitude of Measuring Point: 596.94

Stick-up of well: 1.23 ft TK

INFORMATION COLLECTED:

HNU, ~~or~~ OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 4:52

Depth to Water: _____ Holding Point: _____ Wet Mark at: _____ Depth to Water: _____

First Reading 12.99 ft 1.18 ft 11.81 ft

Second Reading 13.49 ft 1.68 ft 11.81 ft

Third Reading _____

Fourth Reading _____

Fifth Reading _____

Sixth Reading _____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: USX

Address: _____

Well ID: ~~HWT2-10~~ HWT14-0'

Date: 6/23/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:

WATSON
ECELIN _____

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: TIC

Altitude of Measuring Point: 590.79

Stick-up of well: 1.65 ft TIC

0.13

INFORMATION COLLECTED:

HNU ~~or~~ OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 5:15

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

First Reading 7.99 ft 1.53 ft 6.46 ft

Second Reading 8.49 ft 2.02 ft 6.47 ft

Third Reading _____

Fourth Reading _____

Fifth Reading _____

Sixth Reading _____

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

LAF 0165346

Monitoring Well Information Form
Northwest Indiana/Southeast Chicago Project

Facility Name: JOSE - O'BRIEN LOCK & DAM

Address: _____ Well ID: BH 7D

Date: 6/22/92 Time arrived at facility: _____

Weather Condition: _____

Facility Representatives: Affiliation: Phone Number:

USEPA/USGS Representatives: Affiliation: Role:

LEE WATSON USGS
ROGER YOUNG IDEM

WELL DESCRIPTION:

Was Well Position verified on Map? YES NO

Does Well have an outer casing? YES NO

Was Well Locked? YES NO Who has key to well: _____

Does Well have concrete pad? YES NO

Type of Inner Well Casing Material: PVC ss other: _____

Diameter of Well: 2-inch 4-inch other: _____

Location of Measuring Point: _____

Altitude of Measuring Point: _____

Stick-up of well: _____ ft

INFORMATION COLLECTED:

HNU or OVA Initial Reading: _____ ppm Time: _____

Final Reading: _____ ppm Time: _____

Depth to water taken with Electric Tape: _____ ft (if taken).

Time water level taken: 3:43 PM 6/

Depth to Water: Holding Point: Wet Mark at: Depth to Water:

First Reading 27.75 ft .97 ft 27.02 ft

Second Reading 28.49 ft 1.47 ft 27.02 ft

Third Reading _____ ft _____ ft _____ ft

Fourth Reading _____ ft _____ ft _____ ft

Fifth Reading _____ ft _____ ft _____ ft

Sixth Reading _____ ft _____ ft _____ ft

OIL INTERFACE:

Was Oil Found? YES NO Time oil measured: _____

Depth to Oil: _____ ft Depth to Water: _____ ft

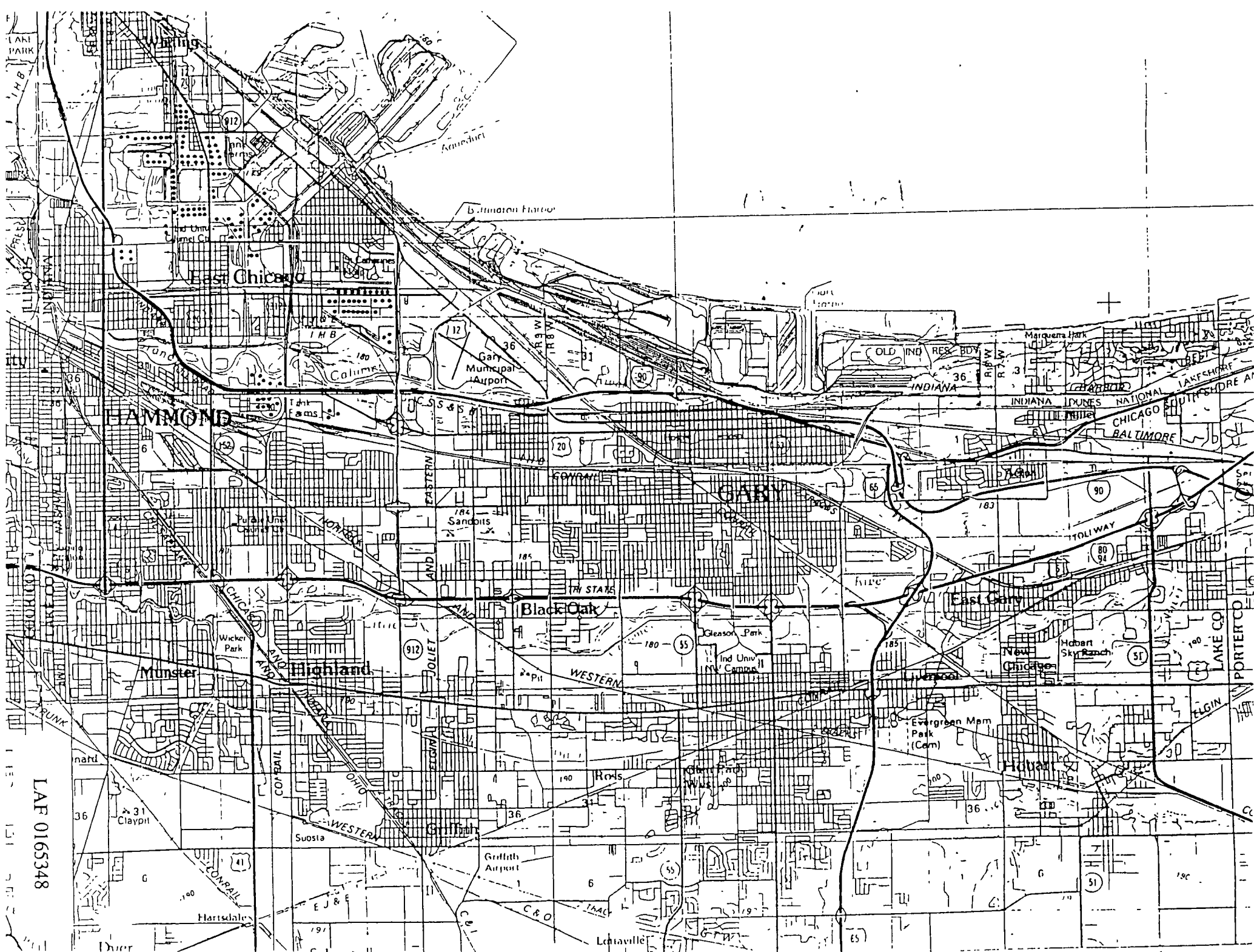
Description of Oil (i.e., black, clear): _____

Decontamination Materials left on site? YES NO

Fate of Decontamination Materials: _____

Time Left Facility: _____

LAF 0165347



LAF 0165348



OBF-4

OBP-7

BP-11

(

VEG. AND SOUNDINGS IN FEET—DATUM IS LOW WATER 578.5 FEET

Primary highway	all weather	Secondary highway	all weather
hard surface	<u> </u>	hard surface	<u> </u>

Light duty road all weather
improved surface

Interstate Route	U S Route	State Route
------------------	-----------	-------------

W'HTING. IND

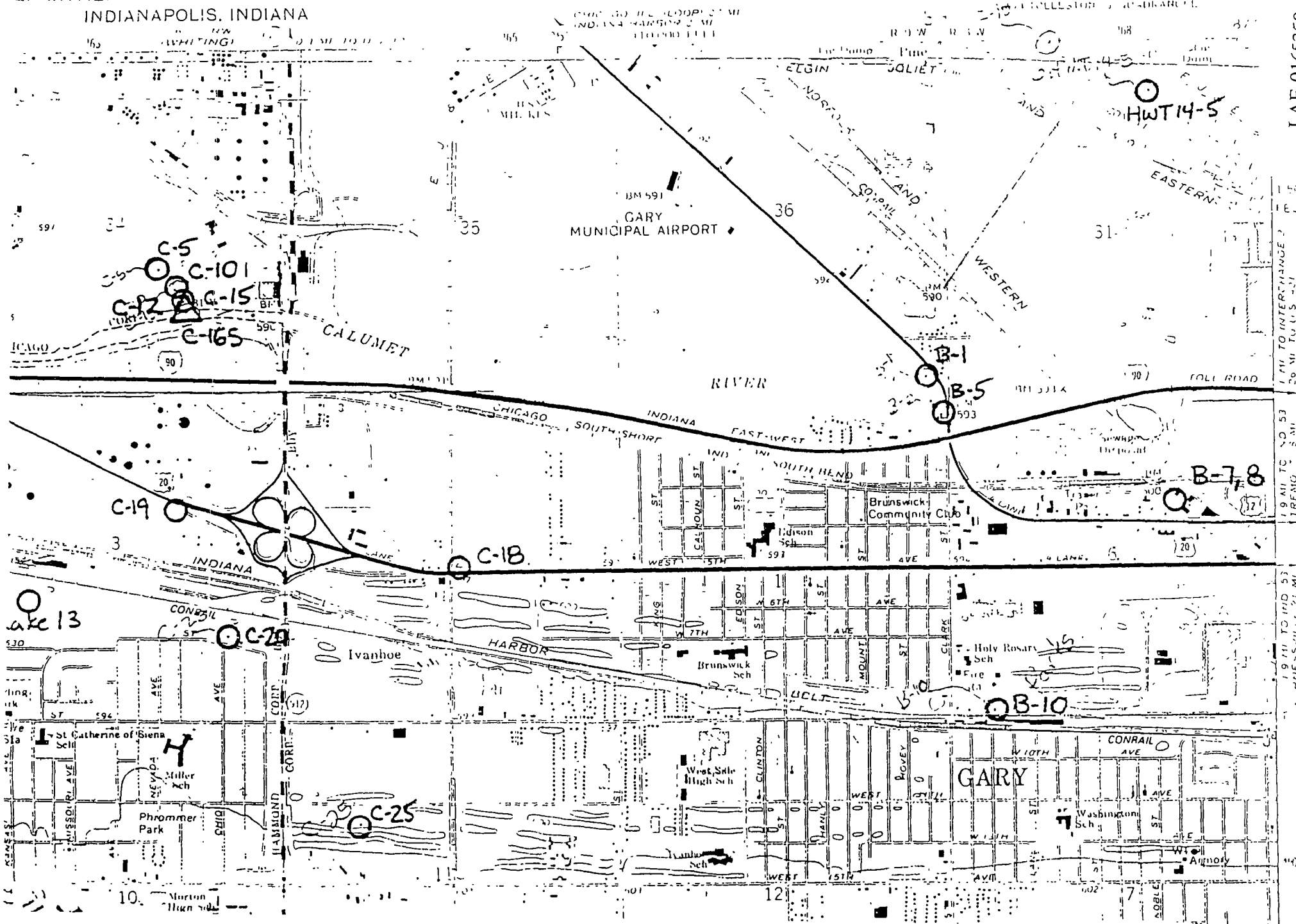
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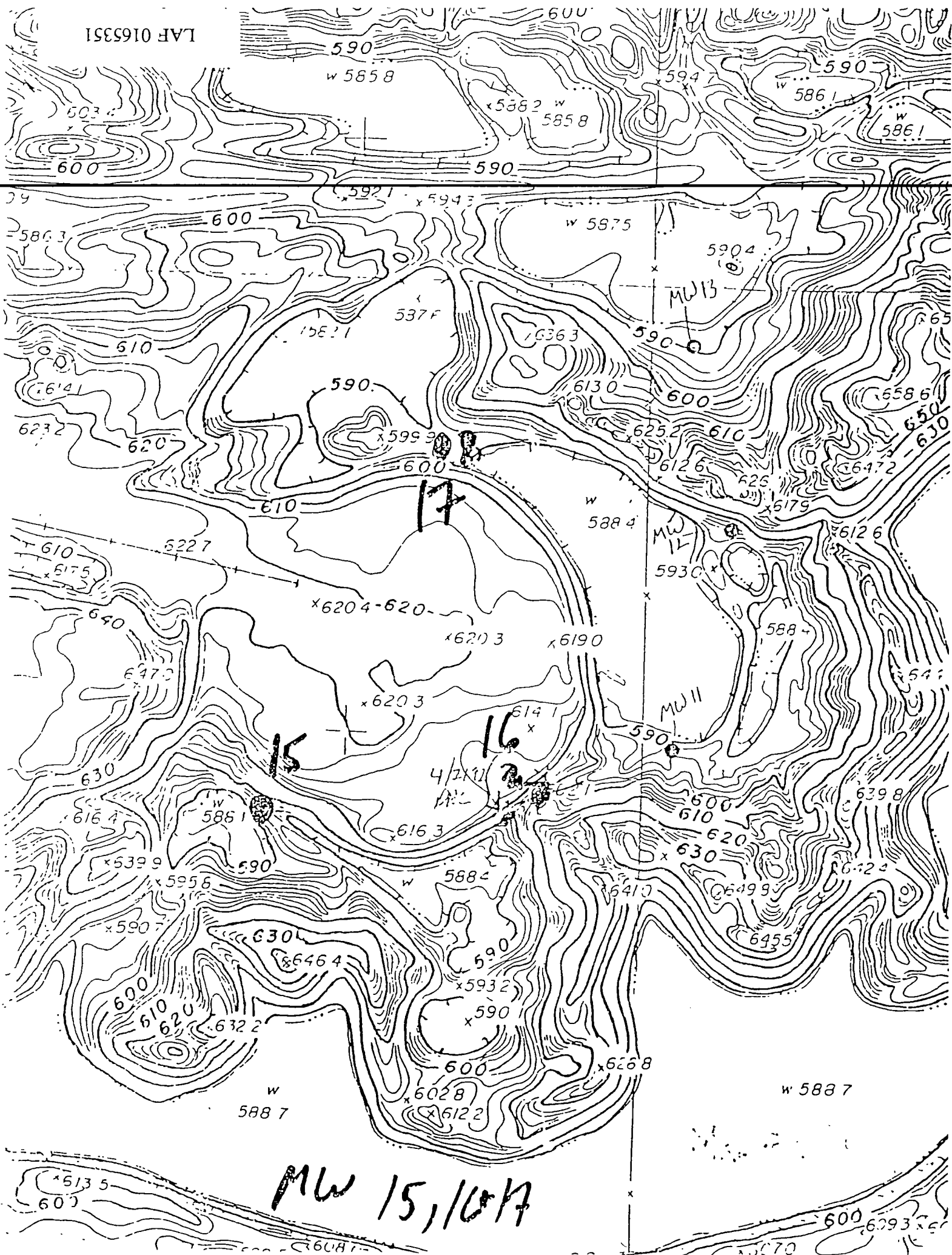
has been shown to provide a complete re-configuration of the system and to be able to recover from any possible error condition.

INDIANAPOLIS, INDIANA

7.5 MINUTE SERIES (TOPOGRAPHIC)

1911 TO 1910 53





MW 15, 16, 17

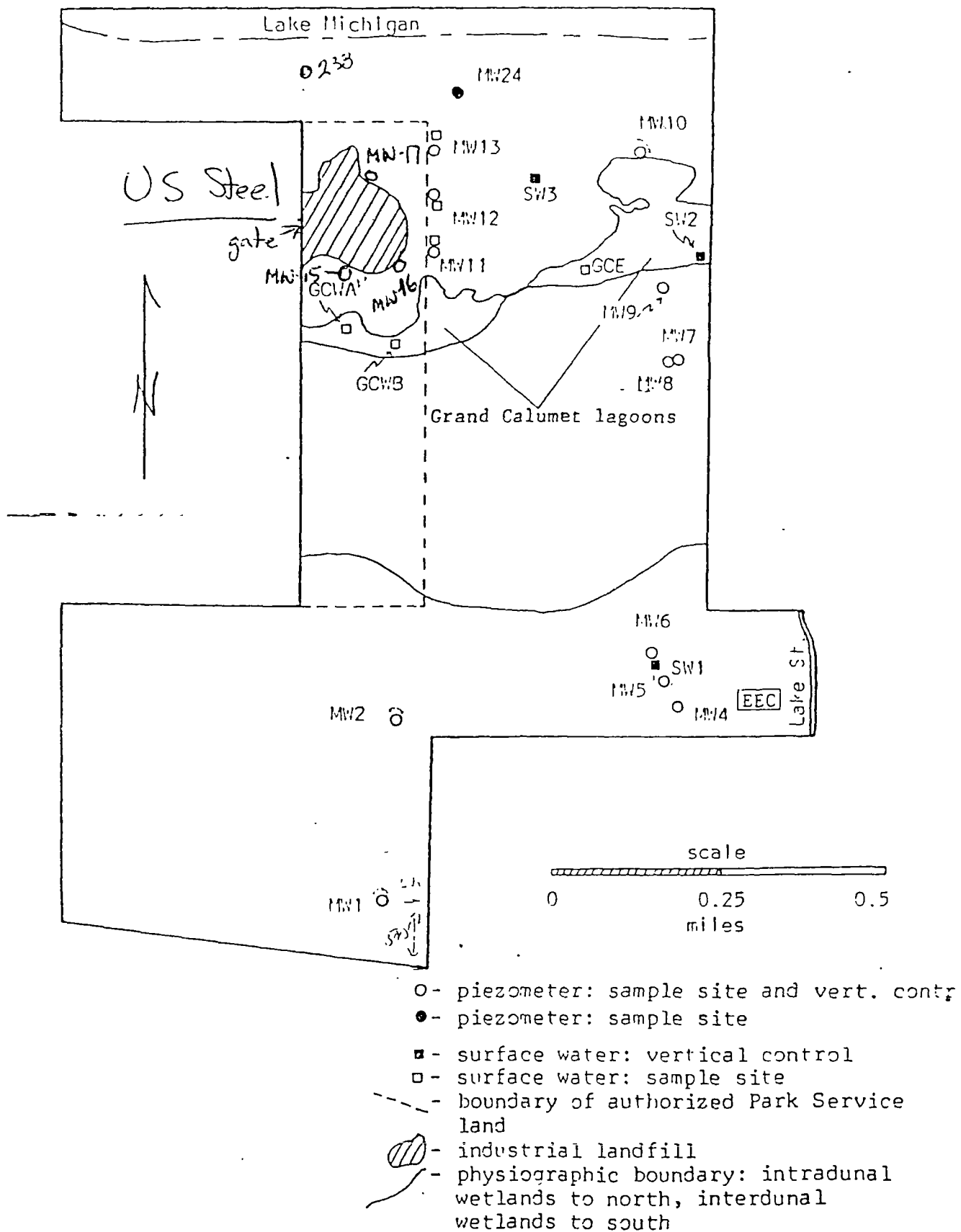
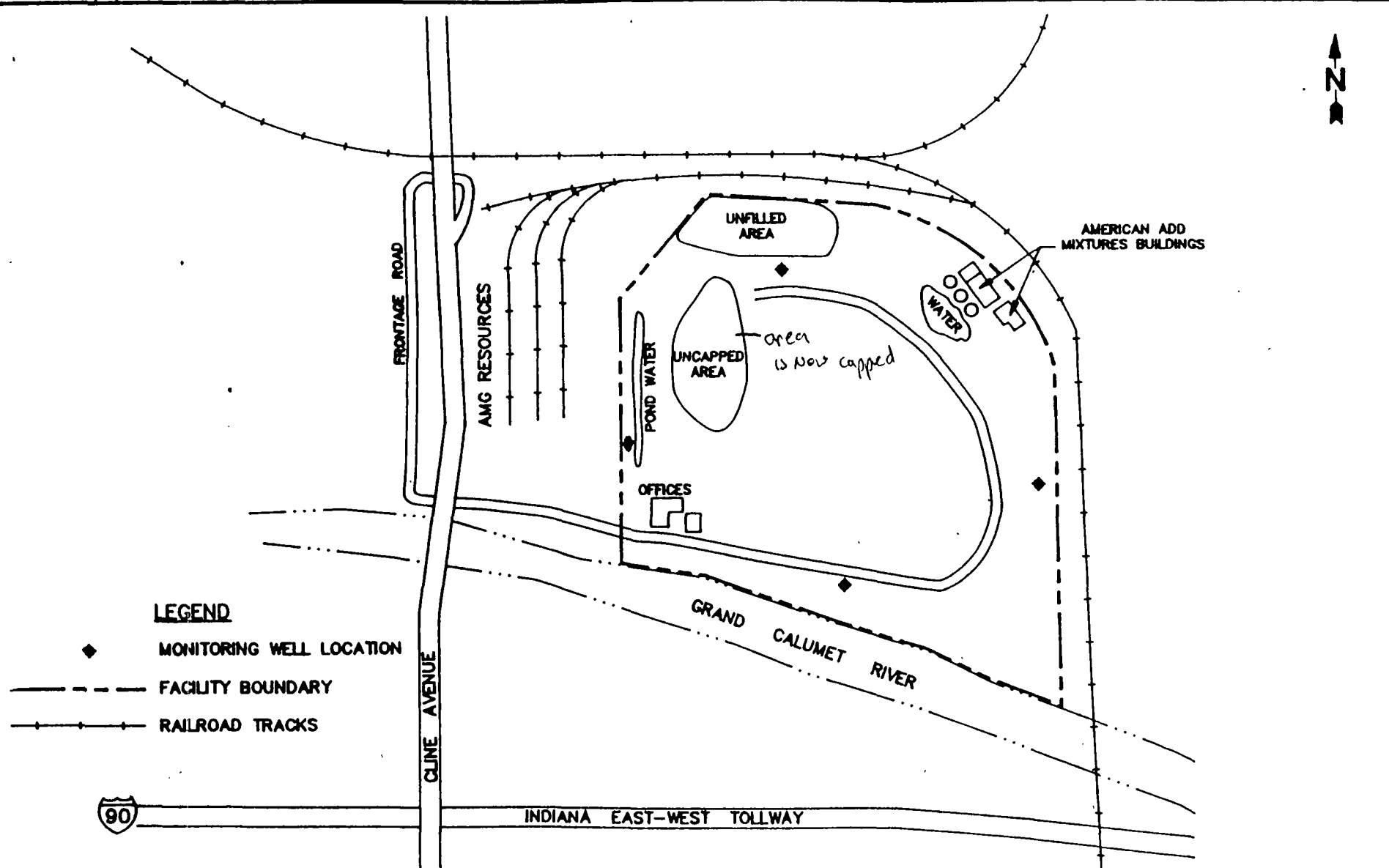


Figure 2. Miller Woods study area.



LEGEND

◆ MONITORING WELL LOCATION

--- FACILITY BOUNDARY

---+---+---+ RAILROAD TRACKS

SOURCE: MODIFIED FROM A GARY DEVELOPMENT COMPANY, INC., LOSS OF INTERIM STATUS INSPECTION REPORT SKETCH DATED JUNE 1986

NOT TO SCALE

GARY DEVELOPMENT COMPANY, INC.
GARY, INDIANA

FIGURE 1
FACILITY LOCATION AND LAYOUT

PMC ENVIRONMENTAL MANAGEMENT, INC.